



314356

**REMEDIATION OBJECTIVES REPORT/
REMEDIAL ACTION PLAN/
REMEDIAL ACTION COMPLETION REPORT**

for

**THE ROGERS PARK SUB-SHOP
POND PARCEL
6631 NORTH KEDZIE AVENUE
CHICAGO, ILLINOIS**

Prepared for

**THE PEOPLES GAS
LIGHT and COKE COMPANY**

**NOVEMBER 2001
REVISED FEBRUARY 2002**

PROJECT NO. 27194

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EXECUTIVE SUMMARY

This combination Remediation Objectives Report/Remedial Action Plan/Remedial Action Completion Report (ROR/RAP/RACR) presents and describes remediation objectives as well as remedial actions that were implemented on the Rogers Park Sub-Shop Pond Parcel (site) to accomplish the remedial objectives presented herein. This site is approximately 1.8-acres in size and is located at 6631 North Kedzie Avenue in Chicago, Illinois. The ROR/RAP/RACR has been prepared by Burns & McDonnell Engineering Company (Burns & McDonnell) on behalf of The Peoples Gas Light and Coke Company (Peoples Gas) in accordance with requirements set forth in Chapter 35 of the Illinois Administrative Code (IAC), Part 740 – Site Remediation Program (SRP).

Peoples Gas currently owns a 10.2-acre parcel of land located on North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels:

- The East Parcel, approximately 3 acres in size, is a vacant lot, covered by vegetation and an unused paved entrance to the property.
- The northern and interior portion of the facility, approximately 5.4 acres in size, is referred to as the Main Parcel.
- The southwest central portion of the property, referred to as the Pond Parcel, is approximately 1.8 acres in size, and currently consists of vacant land and a parking lot.

The Pond Parcel is the subject of this ROR/RAP/RACR.

The purpose of the ROR/RAP/RACR is to present corrective measures proposed and completed to eliminate exposure to benzene, toluene, ethylbenzene constituents, polynuclear aromatic hydrocarbons (PAH) constituents, lead and chromium found in surface and subsurface soils on the Pond Parcel. Corrective measures implemented include the removal of source material and impacted surface and subsurface soil. This ROR/RAP/RACR describes soil remediation activities that were implemented and conducted from mid-June 2001 to October 2001 on the Rogers Park Sub-Shop Pond Parcel.

Site Investigation (SI) activities were performed on the Rogers Park Sub-Shop Pond Parcel in December 1999 and January 2000 and again in May and June 2001, in accordance with Illinois EPA approved procedures. The SI Report was submitted to the Illinois Environmental Protection Agency (Illinois EPA) on September 14, 2001. In late 1999 and early 2000, six (6) borings were advanced in the area and one (1) surface soil sample was collected. During the 2001 investigation, nineteen (19) soil borings and six (6) probes were advanced at various locations

around the site, each to a depth of twenty (20) feet below ground surface (bgs). Soil samples were collected from various depths within each soil boring, delivered to an analytical laboratory and analyzed for either Target Compound List (TCL) volatile organic compounds (VOCs), BTEX, styrene, TCL semivolatile organic compounds (SVOCs), PAHs, priority pollutant metals or Resource Conservation and Recovery Act (RCRA) metals, and cyanide. Certain soil samples were also analyzed for Synthetic Precipitation Leaching Procedure (SPLP) lead and SPLP chromium. Physical soil testing was also conducted. Four groundwater monitoring wells were installed in the surrounding areas and one (1) well was installed inside the Pond Parcel as part of the 2001 field activities. Groundwater samples were collected from five (5) monitoring wells in June 2001. The groundwater samples were collected and analyzed for TCL VOCs, PAHs, RCRA metals, and total cyanide.

During SI field activities, odors and visual staining were noted at the following locations: RPM-SB30, RPM-SB61, RPM-SP062, RPM-SP064, B-18, RPM-SB29A, B-15, and B-16. Source material was identified at these locations within the Pond Parcel during the SI. Shallow groundwater was encountered in nineteen (19) borings on the Pond Parcel at depths ranging from five (5) to sixteen (16) feet bgs. Subsurface investigations support the presence of shallow perched groundwater.

Exposure pathways identified for evaluation include soil ingestion, soil inhalation, soil migration to Class II groundwater and ingestion of Class II groundwater. A Tier 1 evaluation, in accordance with TACO, as specified in 35 IAC Part 742, was conducted to evaluate residential population exposures via these pathways. In general, exceedences of Tier 1 values for soil ingestion were identified in near surface soils (typically within the top foot and in limited cases, as deep as 3 feet) for benzene, a limited list of SVOC constituents, and lead. Benzene was the only VOC constituent to exceed the Tier 1 soil level for the soil inhalation exposure route. This exceedence was in the two (2) limited source areas identified as part of this investigation. Exceedences of Tier 1 values for benzene, ethylbenzene, toluene, benzo(a)anthracene, dibenzo(a,h)anthracene, and chromium for the soil migration to groundwater pathway were identified in limited soil samples. No groundwater samples exceeded the Tier 1 levels for the ingestion of Class II groundwater exposure pathway.

The TACO Tier 1 values pertaining to a residential population were used as remediation objectives for the Pond Parcel, with the exception of naphthalene, where the more stringent construction worker inhalation was established. All soil exceeding TACO Tier 1 values was removed.

In general, remedial actions included site preparation, installation of a sheet pile wall to facilitate deeper excavation, waste characterization, excavation and off site disposal of impacted soil, excavation and decontamination of former structures associated with the former gas holder, confirmation soil samples, ambient air monitoring during construction, installation and

maintenance of soil erosion and sediment control, backfilling excavated areas with gravel and crushed concrete imported from off site, and demobilization. Approximately 25,020 tons of special waste was disposed of at the CID facility in Illinois and 1,137 tons was disposed of at the Roachdale facility in Indiana.

Confirmation soil sampling was conducted in order to demonstrate that remediation objectives were met. Certain areas required additional excavation once initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed. Excavation continued until remediation objectives were met.

In accordance with 35 IAC Part 742 and Section 742.1015, Subpart J, no special conditions apply to the Rogers Park Sub-Shop Pond Parcel site. The remedial action is a final action, and a Comprehensive No Further Remediation Letter is anticipated. No institutional controls or monitoring are required.

The data presented in this ROR/RAP/RACR is accurate and complete. No further remedial activity is necessary on the Rogers Park Pond Parcel.

1.0 INTRODUCTION

In conformance with the Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program (SRP), defined in Chapter 35 of the Illinois Administrative Code (IAC), Subtitle G, Waste Disposal, Chapter I: Pollution Control Board, Part 740, The Peoples Gas Light and Coke Company (Peoples Gas) contracted Burns & McDonnell Engineering Company (Burns & McDonnell) to complete this Remediation Objectives Report/Remedial Action Plan/Remedial Action Completion Report (ROR/RAP/RACR) of the Rogers Park Sub-Shop Pond Parcel (site) in Chicago, Illinois.

Peoples Gas currently owns a 10.2-acre parcel of land located on North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels:

- The East Parcel, approximately 3 acres in size, is a vacant lot, covered by vegetation and an unused paved entrance to the property.
- The northern and interior portion of the facility, approximately 5.4 acres in size, is referred to as the Main Parcel.
- The southwest central portion of the property, referred to as the Pond Parcel, is approximately 1.8 acres in size, and currently consists of vacant land and a parking lot.

This ROR/RAP/RACR presents recognized environmental conditions and related constituents of concern (COCs) and remediation objectives for the Pond Parcel, in accordance with the Tiered Approach to Corrective Action Objectives (TACO) Tier 1 residential levels, presented in 35 IAC Part 742. TACO is the Illinois EPA's method for developing remediation objectives for contaminated soil and groundwater in Illinois. TACO consists of the following approaches:

- Exclusion of exposure routes
- Use of area background concentrations as screening tools or remediation objectives
- Three tiers for selecting remediation objectives

Also presented herein is the remedial plan designed to meet the remedial objectives and results that confirm that the remedial action achieved the established objectives. This report follows a SI Report for the Pond Parcel that was submitted to the Illinois EPA on September 14, 2001, on behalf of Peoples Gas. The SI Report included:

- *The Rogers Park Sub-Shop Pond Parcel Site Investigation Sampling Data (Burns & McDonnell 2001a)*

- *The Rogers Park Sub-Shop Pond Parcel Site Investigation Report* (SI Report) (Burns & McDonnell 2001b)

1.1 PURPOSE AND ORGANIZATION OF REPORT

The purpose of the ROR/RAP/RACR is to document remediation objectives, present an evaluation of corrective measures proposed to eliminate exposure to constituents of concern, present the corrective measures implemented to achieve the remediation objectives and demonstrate the successful completion of the remediation.

This report is comprised of the following sections:

- **Section 1.0 – Introduction**

This section describes the purpose and organization of the report, summarizing general site information, including location, environmental conditions, site characterization, and future use of the site.

- **Section 2.0 – Tier 1 Evaluation Summary**

This section summarizes the Illinois EPA Tier 1 evaluation for applicable exposure routes and presents chemicals of interest to be addressed further. The soil ingestion, soil inhalation, soil migration to groundwater, and groundwater ingestion exposure routes that were presented in detail in the *Rogers Park Sub-Shop, Pond Parcel Site Investigation Report* (Burns & McDonnell 2001b) are summarized

- **Section 3.0 – Exposure Route Evaluation**

This section identifies potential exposure routes and determines whether each route may be excluded from further evaluation based on the presence of source material and other pathway-specific requirements.

- **Section 4.0 – Remediation Objectives**

This section summarizes the final remediation objectives for the Pond Parcel, evaluates all data with respect to the remediation objectives, and sets forth required corrective actions.

- **Section 5.0 – Remedial Action**

This section summarizes the remedial action planned and implemented on the Pond Parcel.

- **Section 6.0 – Results**

This section demonstrates that removal actions achieved the site remediation objectives.

- **Section 7.0 – Special Conditions**

This section demonstrates that post remediation monitoring and/or institutional controls are not required.

- **Section 8.0 - Conclusions**

This section discusses the successful completion of the remediation by compliance with remedial objectives.

- **Section 9.0 - References**

This section presents the references used in this report.

1.2 SITE BACKGROUND

1.2.1 Site Description

The Peoples Gas Light and Coke Company (Peoples Gas) currently owns a 10.2-acre parcel of land located at 6659 North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). A site location map is presented as Figure 1. The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels for remediation purposes:

- The East Parcel, approximately 3 acres in size, is currently a vacant lot covered by vegetation, an unused paved entrance to the site and a gravel parking area.
- The Pond Parcel, approximately 1.8 acres in size, currently consists of vegetated land and a parking lot.
- The Main Parcel, approximately 5.4 acres in size, currently consists of the operational buildings and parking areas associated with the facility.

This ROR/RAP/RACR specifically addresses the Pond Parcel. The Pond Parcel is located approximately 1,000 feet northeast of the intersection of Albion Avenue and Kedzie Avenue in Cook County, Chicago, Illinois (Figure 1). The site is rectangular in shape, approximately 240 feet by 336 feet. The legal description for the Pond Parcel is as follows:

THAT PART OF LOT 2 (EXCEPT THE WEST 66 FEET THEREOF) IN THE SUBDIVISION OF THE WEST ½ (IN AREA) OF THE SOUTHWEST FRACTIONAL ¼ LYING NORTH OF THE INDIAN BOUNDARY LINE OF SECTION 36, TOWNSHIP 41 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 2; THENCE SOUTH 89°51'56" WEST ON THE SOUTH LINE OF SAID LOT 2, 408.81 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 89°51'56" WEST ON THE SOUTH LINE OF SAID LOT 2, 330.00 FEET, MORE OR LESS, TO THE EASTERLY LINE OF KEDZIE AVENUE; THENCE NORTH 01°35'45" EAST OF THE EASTERLY LINE ON KEDZIE AVENUE, 240.00 FEET; THENCE NORTH 89°51'56" EAST, 330.00 FEET; THENCE SOUTH 01°35'45" WEST, 240.00 FEET TO THE POINT OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS

CONTAINING 79.200 SQUARE FEET OR 1.81 ACRES, MORE OR LESS.

1.2.2 Additional Background Information

Hanson Engineers Incorporated (HEI) conducted an investigation for Peoples Gas on the Rogers Park Sub-Shop and prepared a report entitled *Preliminary Site Investigation – North Shore Avenue Station Gas Storage Facility – Chicago, Illinois* dated July 1992. The objective of the

HEI investigation was to determine if there was a potential for impacts associated with the former North Shore Avenue Station. The investigation encompassed 16.2 acres owned by Peoples Gas at that time. The investigation included a review of the environmental setting, historical documents provided by Peoples Gas, Sanborn maps, a water well survey and advancement of two soil borings within the Main and Pond Parcels. The report concluded that below ground portions of the gas storage structures may be present and, if they are present, may contain precipitated tars, unless the tar was removed during demolition of the gas holder (Hanson 1992).

According to the HEI Report, in 1926, the site (Main, East and Pond Parcels) began operating as a manufactured gas facility, the North Shore Avenue Station. A 15-million cubic foot aboveground gas holder, located and removed on the west side of the property, stored manufactured and natural gas until it was dismantled and removed in 1971. (The southern half of the holder was located in the Pond Parcel, with the remainder of the holder located in the Main Parcel). The gas holder was tar sealed until mid-1956 when the sealant was changed to oil. The gas holder was temporarily out of service between April and July 1956 when the holder was repaired and the sealant changed. The interior of the gas holder was steam cleaned and placed back in service July 18, 1956. At this time, a total of 40,000 gallons of tar was removed from two 12,000 gallon buried tar tanks, the northwest holder invert and the tar dam and pump weirs. Also during the 1956 outage, additional tar totaling 152,600 gallons was removed from the base of the gas holder and unspecified locations around the gas holder. The gas holder was disconnected and purged in 1969. Most tar tanks along the holder and the gas holder itself were removed in 1971. Specifications called for the removal of the gas holder and concrete pad, the settling tank, both oil tanks and 7 of 13 tar collection tanks from the property. It is unclear, from the historical records, what happened with the other 6 tar collection tanks. The approximate locations of the former MGP structures are shown in Figure 2.

In 1999 and 2000, Roy F. Weston (Weston) conducted investigation activities in the Pond, Main and East Parcels. Field activities were performed by Weston from December 6, 1999 through January 14, 2000 and July 12 through 14, 2000. Weston advanced six (6) soil borings and collected one (1) surficial soil sample from within the Pond Parcel. The samples collected by Weston were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), priority pollutant metals, and Synthetic Precipitation Leaching Procedure (SPLP) lead and chromium. Weston noted that visual evidence of impacts were observed at soil borings B-15, B-16 and B-18 at depths less than 9.0 feet below ground surface (bgs). Weston installed four (4) groundwater monitoring wells outside of the Pond Parcel during the investigation. The groundwater samples were analyzed for TCL VOCs, TCL SVOCs and metals.

Burns & McDonnell performed additional site investigation activities on the Pond Parcel on May 1 through 4, 2001 and June 14, 15, and 22, 2001. During the Burns & McDonnell investigation,

nineteen (19) soil borings and six (6) probes were advanced at various locations within the Pond Parcel and within the right-of-way for Kedzie Avenue, directly west of the Pond Parcel, each to a depth of twenty (20) feet bgs. Soil samples were collected from various depths within each soil boring, delivered to an analytical laboratory and analyzed for TCL VOCs, benzene, toluene, ethylbenzene and xylenes (BETX), TCL SVOCs, polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, and cyanide. Certain soil samples were also analyzed for SPLP lead and SPLP chromium. Physical soil testing was also conducted. During SI field activities, odors and visual staining were noted at the following locations: RPM-SB30, RPM-SB61, SP062, SP064, and RPM-SB29A. One (1) groundwater monitoring well was installed inside the Pond Parcel as part of the Burns & McDonnell field investigation. Groundwater samples were collected from all five (5) groundwater monitoring wells located on and around the Pond Parcel on June 22, 2001. The groundwater samples were collected and analyzed for TCL VOCs, PAHs, RCRA metals, and cyanide.

The soil boring and soil probe locations associated with the SI activities conducted by Weston and Burns & McDonnell are shown on Figure 2. The five (5) groundwater monitoring well locations are shown on Figure 3. The results of the Weston and Burns & McDonnell SI activities were incorporated into *The Rogers Park Sub-Shop Pond Parcel Site Investigation Report*, dated September 2001 (Burns & McDonnell 2001b). This SI Report was submitted to the Illinois EPA on September 14, 2001.

1.3 RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on visual observations during SI field activities, source material was identified at soil boring locations RPM-SB29A, RPM-SB30, RPM-SB61, B-15, B-16, and B-18 and soil probe locations RPM-SP062 and RPM-SP064. Figure 2 shows the boring and probe locations and presents the significant findings on the Pond Parcel. The source material appeared to be confined to limited areas. One area is located in the vicinity of borings RPM-SB61 and RPM-SB30 and probes SP062 and SP064, in the center of the former gas holder. Source material was observed from 8 to 11 feet bgs. Another area, is located in the vicinity of RPM-SB29A, B-15, and B-16, in the area of the former tar tanks. Based on the results of the SI, this area of impacted material did not extend outside of the Pond Parcel, into the Kedzie Avenue right-of-way, but it did extend to the Main Parcel, north of the Pond Parcel. Further detail is presented in Sections 2 and 3 of this Pond Parcel ROR/RAP/RACR.

2.0 TIER 1 EVALUATION SUMMARY

This section summarizes the TACO Tier 1 evaluations as presented in the Pond Parcel SI Report (Burns & McDonnell, 2001b).

2.1 CURRENT AND FUTURE LAND USE

The Pond Parcel, currently vacant land and an enclosed parking area, is zoned M1-1 (restricted manufacturing). A map of zoning for the site and surrounding areas is presented in Figure 3. Surrounding properties consist of residences to the east and south, undeveloped land and the North Shore Channel to the west, and industrial and commercial businesses to the north. The Chicago City limits are located directly west of the Pond Parcel, beyond Kedzie Avenue. Note that a Dominick's grocery store to the north of the Peoples Gas Main Parcel was recently vacated. Buildings to the north of the Main Parcel (formerly owned by CP Clare), have recently been demolished.

The future use of the Pond Parcel is residential development. The area surrounding the site is currently used for residential, commercial, and business purposes. Future plans for the surrounding area are unknown, however they are not expected to change.

2.2 TIER 1 EVALUATION

As presented in the Pond Parcel SI Report (Burns & McDonnell 2001b), soil data was compared to Illinois EPA TACO Tier 1 residential objectives for soil ingestion, soil inhalation and soil migration to Class II groundwater exposure routes. Table 1 presents a summary of constituents detected in at least one sample collected, and a comparison to the Tier 1 objectives for the soil ingestion, soil inhalation and soil migration to Class II groundwater exposure routes. Measured concentrations that exceed the lowest Tier 1 objective are shaded. Constituents that were analyzed for, but not detected in any samples are not presented in the Table 1. As discussed in the Pond Parcel SI, no constituents exceeded the Tier 1 objectives for the ingestion of Class II groundwater exposure route. The following subsections summarize the Pond Parcel SI Report findings.

2.2.1 Soil Ingestion Exposure Route

Soil samples on the site were compared to TACO Tier 1 residential objectives for soil ingestion. Some of the surface soil samples contained VOCs, PAHs, total lead and arsenic at concentrations greater than their respective TACO Tier 1 residential objectives. Benzene was the only VOC that exceeded its Tier 1 screening level in six (6) samples. Benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were the SVOCs that exceeded Tier 1 levels in a limited number of samples. These constituents are PAHs. Inorganic constituents that exceeded Tier 1 levels were lead and arsenic. Lead exceeded the Tier 1 level in six (6)samples. As presented in the Pond Parcel SI Report (Burns & McDonnell 2001b), the statistical 95 percent upper confidence limit

(UCL) for arsenic in site soil was calculated to be 9.007 mg/kg, which is below the TACO metropolitan statistical area concentration (13 mg/kg) for arsenic (the remediation objective). Therefore, arsenic on the site was eliminated from further evaluation.

2.2.2 Soil Inhalation Exposure Route

The Tier 1 inhalation exposure route was evaluated using all soil samples that were collected during the SI. Of sixty-one (61) samples evaluated, benzene exceeded the Tier 1 level for inhalation in eight (8) samples at depths less than 8 feet bgs.

2.2.3 Soil Migration to Groundwater Exposure Route

The Tier 1 soil migration to groundwater exposure route was evaluated using all soil samples collected from above the water table. Based on a review of the data and the soil boring logs, the presence of a continuous shallow aquifer has not been established on the Pond Parcel. Weston reported difficulty in collecting groundwater samples from the two monitoring wells (MW03 and MW04) due to slow recharge. Also, Weston had difficulty obtaining static water level readings, due to the slow rate of recharge. However, even if the groundwater was continuous and not the result of perched conditions, the unconfined water beneath the site would not meet the definition of a Class I aquifer, as defined in 35 IAC, Subtitle F, Chapter I, Part 620 – Groundwater Quality, Section 210. Grain size testing performed on the silty clay and a soil permeability test support this conclusion. At best, the water would be considered a Class II source of groundwater, as defined in the regulations. Therefore, as a conservative approach, soil analytical results from all samples collected from above the water table were compared to Tier 1 levels pertaining to Class II groundwater.

Toxicity criteria in Appendix B, Table A of TACO for metals and cyanide are only applicable to TCLP or SPLP data, and analyses were for total concentrations for many of the constituents/samples. Therefore, pH dependent Tier 1 values were used for metals (Appendix B, Table D of TACO), unless SPLP data was obtained. Measured values for pH ranged from 7.6 to 8.1. The Illinois EPA Table D in Appendix B of TACO, where values are presented for pHs up to 9.0 was used, unless SPLP data was available. No pH dependent Tier 1 value was available for chromium in Class II groundwater, so the Class I groundwater value was selected for chromium.

No pH dependent Tier 1 value is available for lead. The background concentrations for lead, presented for counties within metropolitan statistical areas (MSA) in Appendix A, Table G of TACO, is 36 mg/kg. The site is currently zoned for restricted manufacturing use. Because the future use of the site is for residential development, the published MSA background concentration will not be used as the Tier 1 value for this pathway. However, several of the soil samples were analyzed for SPLP lead. Therefore, lead was evaluated against the corresponding toxicity criteria in Table A, Appendix B of TACO, and not the published background value in Appendix A, Table G of TACO.

Of the sixty-one (61) samples evaluated, benzene, ethylbenzene, and toluene were the only VOCs that exceeded Tier 1 levels in a limited number of samples less than 14 feet bgs.

Benzo(a)anthracene and dibenzo(a,h)anthracene were the SVOCs that exceeded Tier 1 levels.

Chromium was the only metal that exceeded Tier 1 level in four (4) shallow soil samples collected.

2.2.4 Groundwater Ingestion Exposure Route

Constituent concentrations in groundwater were evaluated for the groundwater ingestion exposure route using TACO Class II levels. Of the five (5) groundwater samples collected and analyzed in June 2001, no samples exceeded the Class II levels for the Class II groundwater ingestion exposure route.

3.0 EXPOSURE ROUTE EVALUATION

Remediation objectives do not need to be determined for a specific exposure route if it can be demonstrated that the exposure route does not exist based on criteria established in Subpart C of TACO (Illinois EPA 2001). The extent of contamination of COCs must be characterized and source material must not exist in order to exclude an exposure route. In addition, pathway-specific requirements must be met for each exposure route.

3.1 SOURCE MATERIAL EVALUATION

During SI field activities, odors and visual staining were noted in borings RPM-SB29A, RPM-SB30, RPM-SB61, B-15, B-16, and B-18 within the Pond Parcel property boundary. Impacted material was observed at 2.0 to 12.0 foot depth interval at boring RPM-SB29A. At boring RPM-SB30, impacted material was observed at 2.0 to 9.0 feet bgs. Tar was observed at borings B-15, B-16, and B-18 at depths less than 9.0 feet bgs. At boring RPM-SB61, visual staining and strong odors were observed from 3 to 11 feet bgs with PID readings ranging from 0.3 parts per million (ppm) to 367 ppm. During SI field activities, six (6) probes were advanced for visual observations only (RPM-SP062, RPM-SP063, RPM-SP064, RPM-SP065, RPM-SP066, RPM-SP069). Probes RPM-SP062 and RPM-SP064 were described as containing odors and staining at seven (7) to eleven (11) feet bgs. Probes RPM-SP063, RPM-SP065, RPM-SP066, and SP069 were described as containing a slight odor to no odor. This information was used to create the significant findings map (Figure 2).

Figure 2 shows two areas impacted by source material on the Pond Parcel. One area, is located in the vicinity of borings RPM-SB61, RPM-SB30, and B-18 and probes SP062 and SP064 and contains source material from 8.0 to 11.0 feet bgs, based on visual observation. Another area, is located in the vicinity of RPM-SB29A, B-15, and B-16 and contains source material from 7.0 to 8.0 feet bgs. The area of source material was suspected of extending outside of the Pond Parcel, into the Main Parcel, but the investigation indicated that it did not extend to the west, into the right-of-way to Kedzie Avenue. Because the existence of source material was confirmed, further evaluation was necessary.

The removal of source material is discussed in detail in Section 5.4 of this report.

3.2 SOIL INGESTION EXPOSURE ROUTE

As discussed in Section 2.2.1, soil data was compared to Illinois EPA TACO Tier 1 residential objectives for soil ingestion exposure route. Tier 1 levels were exceeded for benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and lead. Therefore, the soil ingestion exposure route will not be eliminated from further evaluation.

3.3 SOIL INHALATION EXPOSURE ROUTE

Tier 1 inhalation levels pertaining to the residential population were exceeded for benzene. Therefore, the soil inhalation exposure route will not be eliminated from further evaluation.

3.4 SOIL MIGRATION TO GROUNDWATER EXPOSURE ROUTE

As discussed in Section 2.2.3, Tier 1 screening levels were evaluated for soil migration to groundwater using Class II screening levels. Tier 1 levels were exceeded for benzene, ethylbenzene, toluene, benzo(a)anthracene, dibenzo(a,h)anthracene, and chromium. Therefore, the soil migration to groundwater exposure route will not be eliminated from further evaluation.

3.5 GROUNDWATER INGESTION EXPOSURE ROUTE

Of the five (5) groundwater samples collected for this SI, no samples exceeded the Tier 1 objectives for ingestion of Class II groundwater. No further evaluation is necessary.

4.0 REMEDIATION OBJECTIVES

This section identifies remediation objectives for the Rogers Park Sub-Shop Pond Parcel site. Site remediation objectives were developed using TACO Tier 1 evaluations summarized in Sections 2.0 and 3.0, and as presented in Table 1. Remediation objectives only need to be established for those constituents that exceeded the residential Tier 1 levels. Also, the most stringent TACO Tier 1 remediation objective for naphthalene applies to inhalation by the construction worker population, so that value will replace the residential objective. Also, as required by regulation, source material must be removed. A summary of the remediation objectives is presented in Table 2.

4.1 REMEDIATION OBJECTIVES

The following remediation objectives, pertaining to soil on the Rogers Park Sub-Shop Pond Parcel site have been established.

Remove source material, and remove soil at varying depths that exceed TACO Tier 1 residential remediation objectives. Specifically, soil must not exceed the following criteria:

- Benzene.....0.17 mg/kg
- Ethylbenzene.....19 mg/kg
- Toluene.....29 mg/kg
- Benzo(a)anthracene.....0.9 mg/kg
- Benzo(b)fluoranthene.....0.9 mg/kg
- Benzo(k)fluoranthene.....9 mg/kg
- Benzo(a)pyrene.....0.09 mg/kg
- Chrysene.....88 mg/kg
- Dibenzo(a,h)anthracene.....0.09 mg/kg
- Indeno(1,2,3-cd)pyrene.....0.9 mg/kg
- Naphthalene.....1.8 mg/kg
- Total lead.....400 mg/kg
- SPLP lead.....0.1 mg/L
- Total chromium.....28 mg/kg
- SPLP chromium.....1.0 mg/L

These remediation objectives are intended to prevent exposure to source material and to benzene, ethylbenzene, toluene, several PAHs, lead, and chromium present in concentrations above remediation objectives pertaining to a residential population, and to obtain a Comprehensive No Further Remediation Letter, as identified in Subpart F of 35 IAC Part 740, based on a residential property classification. Note that while SPLP lead and SPLP chromium results were well below

the Tier 1 level pertaining to soil migration to groundwater, not all samples were analyzed for SPLP lead and chromium during the investigation. Therefore, remediation objectives will include SPLP lead and SPLP chromium.

5.0 REMEDIAL ACTION

This section identifies remedial actions proposed and implemented on the Pond Parcel to achieve the remediation objectives established in Section 4.0 of this ROR/RAP/RACR. The remedy for the site is to excavate and dispose of impacted soil.

Remedial action activities consist of the following main components:

- Site preparation;
- Waste characterization;
- Air monitoring during remediation;
- Excavation, stockpiling and off site disposal of impacted surface soils, managed as special waste, and management of decontamination water;
- Confirmation soil samples;
- Management of potential stormwater runoff/runoff, and soil erosion and sediment control; and
- Demobilization and site restoration.

Remedial activities on the Pond Parcel took place between June and October 2001. Photographs documenting field activities are presented in Appendix A.

5.1 SITE PREPARATION

Site preparation activities began in May 2001, as part of ongoing remediation activities in adjacent Parcels. Fabric was attached to the existing fence along the north, west and south sides of the Pond and South Parcels in order to help control potential off site dust migration during excavation. The fabric was placed in a manner that allowed it to act as a silt fence as well. Fabric, 8 feet in length, was attached at the top and middle of the fence and extended to the ground surface.

Buried utility lines were identified by exposing them during hand excavation activities and they were left undisturbed. Previously unidentified buried utilities/structures in surface soil were encountered during remediation work, identified as abandoned lines, and removed as necessary. Utilities were deemed abandoned because they were no longer in service.

The gas holder and tar tank excavation areas, based on the depth of excavation, were laid out prior to excavation activities. Additionally, the confirmation sampling grids were identified and marked prior to excavation.

A sheet pile wall earth retention system was installed in July 2001 along a portion of the western boundary of the Pond Parcel. The sheet pile wall was 80 feet long by 25 feet deep and its location is shown on Figures 4, 5, and 6. Excavation depths up to 12 feet were planned in the area along Kedzie Avenue, and Chicago Department of Transportation (CDOT) requested that the sidewalk and the right-of-

way not be disturbed during excavation activities. Since side sloping was not allowed, the sheet pile wall was installed before excavation.

The CDOT sheet pile wall approval required damage control monitoring. The damage control monitoring consisted of twenty (20) settlement points and installation of an inclinometer, which measured the movement of the ground outside of the sheet pile wall. The twenty (20) settlement points were initially measured on July 20, 2001, prior to installation of the sheet pile wall. The settlement points were measured weekly until September 24, 2001. The inclinometer was installed on July 26, before any excavation occurred, and weekly measurements were collected from July 27 through September 21, 2001. The data collected from the weekly monitoring is retained on file at CDOT and Burns & McDonnell. Due to the collected data and completion of backfill on the site, CDOT requires future measurements to be collected at the end of October and November 2001.

The sewer line along Kedzie Avenue from the outfall on North Shore Avenue to Manhole 1122 was inspected in July 2001 in order to evaluate the condition of the line prior to installation of the sheet pile wall. The sewer inspection was requested by CDOT as part of the damage control monitoring requirements for installation of the sheet pile wall earth retention system. The sewer line was inspected again in October 2001, to evaluate the condition of the line after sheet pile wall installation, excavation, and backfill activities. No damage was noted.

5.2 WASTE CHARACTERIZATION

Prior to excavation activities, waste characterization samples were collected for analyses. Composite soil sample RPS-WC1 was required by Waste Management to dispose of the material in the CID landfill, in Chicago, Illinois. The sample was collected on April 23, 2001 by Burns & McDonnell and submitted to Test America Inc. in Bartlett, Illinois under proper chain-of-custody. Sample RPS-WC1 was analyzed for pH, TCLP metals, TCLP pyridine, TCLP hexachlorobenzene, polychlorinated biphenols (PCBs), flashpoint, reactive sulfide, paint filter, and LN Parameters (chemical oxygen demand, fats, oil and grease, ammonia nitrogen, pH, total cyanide, and oxidizing agents).

On May 2, 2001, Burns & McDonnell collected a grab soil sample (RPM-SB61-005) from the Rogers Park Pond Parcel and submitted it to STAT Analysis Corporation (STAT) in Chicago, Illinois under proper chain-of-custody. Analyses for sample RPM-SB61-005 were required by Heritage Environmental Services, LLC (Heritage); to dispose of the source material in the Roachdale Subtitle C Landfill, in Roachdale, Indiana. Sample RPM-SB61-005 was collected in an area containing source material. The sample was analyzed for TCLP VOCs, TCLP SVOCs, TCLP Metals, flashpoint, pH, paint filter, reactive sulfide, total solids, ash content, total cyanide, total phenol, extractable organic halides (EOX) and water reactivity. Analytical results of the waste characterization samples (RPS-WC1 and RPM-SB61-005) are presented in Appendix B.

5.3 AIR MONITORING

Air monitoring for BTEX and PAHs (as dust) was performed in an effort to ensure that residents of the surrounding community and onsite workers were not exposed to airborne compounds that may be emitted during remedial activities. Air monitoring was conducted in accordance with the procedures described below and documentation sheets are included in Appendix C.

5.3.1 Real-Time Air Monitoring

Air monitoring was performed around the site perimeter during management of impacted media. PAH constituents, as dust, were monitored using a MiniRAM, a hand held dust collection device. A MiniRAE 2000 Photo Ionization Detector (PID) was used to determine real-time organic vapor concentrations. Organic vapor and dust monitoring were done regularly (approximately every hour) during the workday along the fence line. Readings were taken mainly in the north, south, east, and west portions of the site in a rotating fashion. Appendix F contains the corresponding equipment calibration sheets, presents real-time air monitoring results during remedial activities, and corrective action sheets.

The action level for organic vapor of 0.2 parts per million (ppm) was rarely exceeded. On July 26, 2001, PID readings exceeded the action limit of 0.2 ppm inside the gas holder excavation at approximately 12 feet bgs. Excavation was slowed and respirators were required when working in the gas holder excavation area. On August 2 and 3, 2001, PID readings exceeded 0.2 ppm around the stockpile near the gas holder excavation. Excavation was slowed, respirators were required in the gas holder excavation area, and the waste was covered with plastic sheeting. On August 6, 7, and 8, 2001, PID readings exceeded 0.2 ppm around the waste near the gas holder excavation, and a Draeger benzene tube was used to measure ambient air benzene levels. All ambient benzene level results from the Draeger tubes were 0 ppm.

The action level for dust on the site was $150 \mu\text{g}/\text{m}^3$ for the 24 hour average concentration of particulate matter less than 10 micrometers, as specified in 40 CFR 50.6. Dust levels exceeded the action level on August 6, 2001. A water truck was used to spray the area north of the Pond Parcel in order to minimize the dust.

Monitoring of onsite worker health and safety is addressed in a separate Site Health and Safety Plan. The Site Health and Safety Plan (HASP) was written specifically to address the chemical and physical hazards specific to the site (Burns & McDonnell 2001c). All persons working on the site were required to read, sign and conform to the requirements of the health and safety plan.

5.3.2 Ambient Air Monitoring

Ambient air monitoring was performed using Summa® canisters, which were analyzed for BTEX using USEPA Method TO-14A. The canisters were placed at north, south, east and west stations to provide representative results of the site (Figure 5). The canisters were located at a height of 8 to 9 feet above the ground surface. The canisters were not located in the direct vicinity of any permanent solid obstructions. Pre-excavation sampling was conducted from July 20 through July 24, 2001. Excavation air sampling

was conducted from July 25 through September 26, 2001. The analytical results and the meteorological data associated with the pre-excavation, and excavation air samples are shown on Tables 3, 4 and 5.

The Summa® canisters were analyzed for BTEX in a three-day cycle as shown below:

<u>Work Day</u>	<u>Locations Sampled</u>
1	4 (All sampling stations)
2	1 (Collected from the downwind station)
3	1 (Collected from the downwind station)
4...n	Repeat as indicated for Work Days 1 through 3

All of the canisters were analyzed every third monitoring day. Only the prevailing downwind air samples were analyzed on the other two days of each cycle. The Summa® canisters were placed into operation at approximately 6:30 AM, before work commenced, and operated until all site work ceased for the day. None of the action levels for benzene, toluene or ethylbenzene (39, 2,211 or 4,883 parts per billion by volume (ppbv), respectively) were exceeded. Appendix D contains the action level calculations. An allowable concentration on the receptor was calculated and then allowable vapor concentrations were calculated.

A portable meteorological station was set up onsite to monitor barometric pressure, wind speed and wind direction. The meteorological data was logged using an electronic data logger. Table 3 contains the meteorological data collected during excavation activities. The prevailing wind direction was determined by the meteorological station and used to designate the predominant downwind air monitoring location(s) for each air-sampling event.

As discussed above, PAH (as dust) monitoring was performed on a continuous basis at each stationary monitoring location using a hand held dust collection device (MiniRAM).

5.4 EXCAVATION

Excavation of the impacted soils was conducted at specified depths across the site. Based on the SI findings, excavation on the Pond Parcel was planned from depths of six (6) inches to more than ten (10) feet. Two areas, the former tar tank and the former gas holder, were planned to be excavated to depths greater than 10 feet bgs. Figure 4 details the excavation layout plan.

During excavation activities on the Pond Parcel, historical structures were uncovered. Some areas required deeper excavation than anticipated in order to achieve the remedial objectives based on the confirmation samples that were collected during excavation (see Figure 5) and in order to remove historical structures. All excavation activities on the Pond Parcel fall into one of the following categories: gas holder excavation, tar tank excavation, tank invert and valve/wier box excavation, miscellaneous steel tar pipe excavation, and surface soil excavation. As presented above, air monitoring was conducted during all excavation activities.

5.4.1 Gas Holder Excavation

Based on the findings in the SI, excavation of the gas holder began in July 2001. Coal tar saturated material was observed in the gas holder excavation at depths greater than three (3) feet bgs. Excavation was performed to a depth of approximately 12 feet bgs, until visually clean native clay was observed at the bottom of the excavation. The top three (3) feet of soil excavated from the gas holder area was considered special waste and was often collected and temporarily stockpiled before being loaded into end-dump trailers and transported to the Waste Management CID landfill in Chicago, Illinois. Trucking occurred between 6 am and 3 pm. Some pre-loading occurred in the afternoon for transport the following day. Some of the heavily impacted material excavated at depths greater than six (6) feet bgs was considered to be a different waste stream than the material being transported to CID. This waste was segregated and loaded into lined end-dump trailers and transported to the Heritage Roachdale Sub-Title C landfill in Roachdale, Indiana. It was disposed of as non-hazardous special waste, although it was manifested as hazardous waste in Illinois. Each manifest clearly stated the following in Box J:

This consignment is not hazardous waste in the State of Indiana per the Indiana Department of Environmental Management correspondence dated January 21, 2001 to Regina Mahoney from Leah Fouty and the American Battery Recyclers, Inc. et al vs. USEPA (April 21, 2000)

5.4.2 Tar Tank Excavation

Based on the findings in the SI, excavation of the tar tank area began in July 2001. Prior to excavation, a sheet pile earth retention system was installed to prevent damage to Kedzie Avenue located directly west of the tar tank excavation area. Coal tar saturated material was observed in the tar tank excavation area at depths greater than three (3) feet bgs. Excavation was performed to a depth of approximately 12 feet bgs, until visually clean native clay was observed at the bottom of the excavation. The top three (3) feet of soil excavated from the tar tank area was managed as special waste and the more heavily impacted soil, generally excavated from the deeper area, was manifested as hazardous waste but disposed of in the Heritage Roachdale Subtitle C facility in Indiana as special waste as discussed in Section 5.4.1.

5.4.3 Surface Soil Excavation

Based on findings in the SI, the surface soil excavation in the southern portion of the Pond Parcel began in June 2001. The surface soil excavation was designed to remove soil of six (6) inches to three (3) feet bgs from designated areas as shown in Figures 4 and 5. Based on confirmation composite samples discussed in Sections 5.6 and 6.1.1, some areas required additional excavation. Therefore, the southern portion of the Pond Parcel was excavated from six (6) inches to more than ten (10) feet bgs. The soil was managed as special waste and was disposed of at the CID facility.

5.4.4 Valve/Wier Box Excavation

During the surface soil excavation, the concrete holder foundation was discovered. Three (3) holder invert valve/wier boxes were uncovered along the concrete holder foundation. Only one (1) valve/wier box was located on the Pond Parcel. The structures were at least 20 feet wide by 30 feet long by 12 feet deep and housed abandoned steel and cast iron piping and valves that were 4 to 5 feet in diameter. The

boxes were located in the northwest, northeast, and southeast portion of the foundation. Excavation of the holder invert valve/wier boxes began in September 2001. Oily water and sludge were present in the valve/wier boxes. The liquid was collected, managed, transported and disposed of as hazardous waste at either Waste Management CID Bioplant in Calumet City, Illinois or Beaver Oil Company, Inc. in Hodgkins, Illinois. After removal of liquids, the valve/wier boxes were fully excavated to a depth of 12 feet bgs. A 24-inch cast iron outlet pipe was removed at a depth of 5 feet bgs around the southeast valve/wier box. The piping in the valve/wier boxes was collected, decontaminated, and transported to United Scrap in Cicero, Illinois. The sludge and soil within and surrounding the boxes was collected into roll-off boxes, manifested as hazardous waste, and disposed of in the Subtitle C facility in Indiana as special waste.

Excavation around the concrete gas holder foundation began in September 2001, because the soil was visually impacted. The section between the northwest and southeast valve/wier boxes was excavated to 4 feet bgs and the concrete was then broken up. The section between the southeast and northeast valve/wier boxes was excavated to 5 feet bgs and the concrete holder foundation was left in tact. All visually impacted material around the foundation was excavated and properly disposed of as special waste.

5.4.5 Miscellaneous Steel Tar Pipe Excavation

During excavation of the tar tank area, a 2-inch steel tar pipe was discovered (as shown on Figure 6). The pipe extended approximately 150 feet south from the tar tank excavation then turned at a right angle and extended approximately 300 feet west. Excavation of the pipe began in September 2001. The pipe was excavated to 3 feet bgs and removed. The soil surrounding the pipe was disposed of as special waste.

Figure 6 shows the final excavation map. Construction activities were documented. Daily reports of excavation activities, activity logs and other pertinent data were generated and maintained. Appendix E contains a copy of the daily reports.

5.5 SOIL AND WATER REMOVAL

A total of 25,020 tons of special waste was disposed of in the CID facility, approximately 1,137 tons of waste was disposed of in the Subtitle C facility in Indiana as special waste, and 97,037 gallons of wastewater was removed from the site, manifested and transported and disposed of at either CID or Beaver Oil. The waste totals are a combination of the Pond and Main Parcels, because the source material straddled the boundaries between the Parcels and all excavation work was done concurrently. Appendix F contains the manifest logs for special waste, hazardous waste, and hazardous liquid. Remedial action manifests and weight tickets are included in a separately bound book, entitled *Remedial Action Manifests, Weight Tickets, and Summary of Disposal Quantities* (Burns & McDonnell 2001d).

5.5.1 Soil Manifested as Special Waste

The majority of the soil collected from both the Pond and Main Parcels was characterized as special waste, with the exception of some material excavated deeper than 3 feet bgs with visible contamination in the vicinity of source material encountered in the tar tank and gas holder excavation areas, and the

valve/wier boxes. Special waste soil was loaded into end-dump trucks, manifested as special waste, and transported to Waste Management's CID facility in Chicago, Illinois. The total volume of special waste and debris removed from the area was approximately 25,020 tons.

5.5.2 Soil Manifested as Hazardous Waste in Illinois

Some material removed deeper than 3 feet bgs in the tar tank area, gas holder area, and valve/wier box excavation areas was characterized as RCRA hazardous waste in the State of Illinois based on the waste characterization sample RPM-SP61-005. This sample had a TCLP benzene concentration greater than the regulatory level of 0.5 mg/L. The material was loaded into lined end-dump trucks or roll-off boxes, manifested as hazardous waste, and transported to the Heritage Roachdale Subtitle-C Landfill in Roachdale, Indiana. Approximately 1,137 tons of this material was disposed of as special waste. Each manifest clearly stated the following in Box J:

This consignment is not hazardous waste in the State of Indiana per the Indiana Department of Environmental Management correspondence dated January 21, 2001 to Regina Mahoney from Leah Fouty and the American Battery Recyclers, Inc. et al vs. USEPA (April 21, 2000).

5.5.3 Waste Water

As needed to facilitate excavation activities, stormwater runon/runoff was pumped from the tar tank and gas holder excavation areas. Water pumped from these areas was temporarily stored in an onsite frac tank and then transported offsite to the Waste Management CID Bioplant in Calumet City, Illinois or Beaver Oil Company, Inc. in Hodgkins, Illinois for treatment. During the excavation of the three valve/wier boxes, oily water was present inside of the boxes. The water contained inside of the valve/wier boxes was removed via vacuum truck and transported offsite to the above mentioned facilities. Water collected from the tar tank excavation, gas holder excavation, and the valve/wier boxes was not sampled during excavation activities, but was conservatively assumed to be hazardous for disposal purposes. One sludge sample (RPM-WCC) was collected from the southeast valve/wier box and the results were used to generate Beaver Oil Company Waste Survey Forms. Appendix E contains the Chain of Custody for sample RPM-WCC and the water survey forms from Beaver Oil Company. A total of 97,037 gallons was collected from the frac tank and valve/wier boxes.

5.5.4 Additional Waste

During excavation, piping and valves in the valve/wier boxes were removed. The piping and valves were made of steel and cast iron and were decontaminated and transported off site to United Scrap in Cicero, Illinois. Appendix B contains the United Scrap Drivers Ticket.

During excavation of the tar tank and gas holder areas and during decontamination of the valve/wier boxes, the workers wore personal protective equipment (PPE). The PPE and debris (paper/plastic) was stored in 55-gallon drums. The generated waste was transported offsite to the Michigan Disposal Waste Treatment Plant in Belleville, MI in two (2) 55-gallon drums. Appendix B contains the waste characterization report submitted to the Michigan Disposal Waste Treatment Plant.

5.6 CONFIRMATION SOIL SAMPLES

Confirmation soil sampling was performed in order to verify that soil exceeding TACO Tier 1 residential screening levels was removed. Also, soil exceeding the TACO Tier 1 construction worker objective for inhalation of naphthalene was confirmed to be removed. Confirmation samples were analyzed for either BTEX, styrene, PAHs (8270 SIM), total and SPLP beryllium, total and SPLP chromium, and total and SPLP lead. The results were compared to Tier 1 residential or construction worker screening levels (remediation objectives specified in Section 4.1). If measured concentrations exceeded the remediation objectives, the areas from which they were collected were excavated further. Once this was complete, another confirmation sample was taken. If measured concentrations exceeded the Tier 1 remediation objectives in the tar tank or gas holder excavations, the locations were excavated an additional 6 inches, prior to collection of another grab sample. This process continued until the remediation objectives were achieved. Confirmation sampling locations are detailed on Figure 5.

Confirmation composite samples were collected in the southern portion of the Pond Parcel. This area was divided into 1/8 acre plots from which composite confirmation samples were collected. Based on the size of the site, ten (10) areas were delineated. The initial composite samples were analyzed for PAHs, total and SPLP beryllium, total and SPLP chromium, and total and SPLP lead. Certain areas required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed for PAHs, with the exception of one sample that was analyzed for PAHs and SPLP lead. Table 6 presents the results of confirmation sampling.

Confirmation grab samples were collected in the tar tank and gas holder excavations. In the tar tank excavation, the side walls were sampled at four (4) locations. At each location, upper and lower samples were collected at depths of approximately 3.0 feet bgs and 8.0 feet bgs, respectively. One (1) grab sample was collected in the bottom center of the excavation at a depth of approximately 12 feet bgs.

In the gas holder excavation, the side walls were sampled at eight (8) locations. At each location, upper and lower samples were collected at depths of approximately 3.0 feet bgs and 8.0 feet bgs, respectively. One (1) grab sample was collected in the bottom center of the excavation at a depth of approximately 12 feet bgs. The initial grab samples were analyzed for BTEX, styrene, PAHs, total and SPLP lead. Certain areas (RPM-CSH-06 and RPM-CSH-07) required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed for BTEX, styrene, and PAHs (See Table 6).

Three (3) confirmation grab samples were collected around the southeast valve/wier box 24-inch cast iron pipe outlet, as shown on Figure 6. Samples RPM-N-Pipe, RPM-S-Pipe, and RPM-B-Pipe were collected at depths of approximately 2 feet bgs, 2 feet bgs, and 5 feet bgs, respectively. The initial grab samples were analyzed for BTEX, styrene, PAHs, total and SPLP lead.

Confirmation samples were sent to STAT. Analytical data is included in Appendix G.

5.7 POTENTIAL STORMWATER RUNON/RUNOFF AND SOIL EROSION AND SEDIMENT CONTROL

Erosion and sediment controls were implemented during construction activities including:

- Sequenced construction;
- Maintenance of erosion and sediment controls (silt fences);
- Installation of a sheet pile wall earth retention system;
- Construction of berms around the excavations;
- Excavated soil from the staging area was loaded onto trucks as quickly as possible; and
- Staged soils that were left on site overnight were compacted and covered with tarps.

Routine inspections of erosion and sediment control features were conducted on a daily basis, after each rainfall and during periods of extended rainfall. Repairs, if necessary, were made immediately.

5.8 BACKFILLING

Backfilling was used on the Pond Parcel in order to fill in the excavated holes. Backfilling to grade occurred in the area of the sheet pile wall. The site was not fully restored due to the future plans to sell and then develop the property. Figure 6 shows a summary of the completed backfilling.

5.8.1 Gas Holder Excavation

Backfilling of the gas holder began in August 2001. The gas holder was backfilled with 3-inch crushed concrete up to a depth of approximately 3 feet bgs. A fabric liner was then placed on top of the crushed concrete and CA-6 (crushed concrete) was placed above the stone to a depth of approximately 5-feet bgs. Once the fill was in place it was leveled.

5.8.2 Tar Tank Excavation

The tar tank excavation was backfilled with 3-inch crushed concrete to a depth of approximately 6 feet bgs. The CA-6 stone was placed at a depth of 6 inches above the ground surface in the western half of the excavation in order to provide support for the sheet piling which was left in place. However, in the eastern half of the excavation, only 3 feet of CA-6 stone was placed above the fabric. Once the fill was in place it was leveled.

5.8.3 Valve/Wier Box Excavation

Backfilling of the valve/wier boxes began in August 2001, including the one (1) valve/wier box contained on the Pond Parcel. Crushed concrete from the gas holder wall was placed at a depth of approximately 2 feet, on top of which was placed 5 feet of 3-inch crushed concrete. Five feet of CA-6 stone was then used to completely fill the valve/wier boxes. The northwest and northeast valve/wier boxes were covered with asphalt, because they are located directly in the company parking lot.

5.8.4 Miscellaneous Steel Tar Pipe Excavation

The 2-inch steel tar pipe excavation backfilling began in September 2001. Similar to the valve/wier boxes, the backfilling consisted of a 2 foot bottom layer of crushed concrete from the gas holder wall, a

middle 5 foot layer of 3-inch crushed concrete covered with fabric, and a top 5 foot layer of CA-6. This excavation was also completely filled.

5.9 DEMOBILIZATION AND SITE RESTORATION

After completion of soil removal activities, the following cleanup and site restoration activities were performed:

- Decontamination of potentially impacted equipment; and
- Removal of temporary construction trailer.

6.0 RESULTS

This section presents all sampling results, which demonstrate that all remedial objectives have been met.

6.1 CONFIRMATION SAMPLING

Confirmation sampling was done in accordance with the remedial objectives described in Section 4.0 of this report in order to confirm that the objectives were met. Table 6 summarizes the confirmation sampling results and the site-specific remedial objectives. Certain areas required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed. Excavation continued until remediation objectives were met. Figure 6 is an as-built excavation map, showing the areas of confirmation sampling. Appendix G contains the soil analytical data.

6.1.1 Composite Samples

The majority of the first round of composite confirmation samples were below the site-specific remediation objectives with the exception of areas RPP-CS02, RPP-CS04, RPP-CS07, and RPP-CS08.

- Confirmation sample RPP-CS02-001 barely exceeded the SPLP lead remediation objective of 0.1 mg/L at a concentration of 0.117 mg/L. The SPLP lead detection is suspect, because the total lead concentration is significantly lower than typical samples that exceed SPLP lead. Also, the sample was collected in the area of an abandoned steel pipe that was subsequently excavated and removed. Therefore, further excavation and removal in the area occurred, and the result is no longer valid.
- Area RPP-CS04 required additional sampling due to exceedences of SPLP lead, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Four (4) confirmation samples were collected in area RPP-CS04 until the results were below the remedial objectives. Remedial objectives were met by sample RPP-CS04-004 that was collected at a depth approximately 10 feet bgs.
- Area RPP-CS07 required additional sampling due to exceedences of benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Three (3) confirmation samples were collected in area RPP-CS07 until the results were below the remedial objectives. Remedial objectives were met by sample RPP-CS07-003 that was collected at a depth of approximately 1.5 feet bgs.
- Area RPP-CS08 required additional sampling due to exceedences of benzo(a)pyrene. Three (3) confirmation samples were collected in area RPP-CS08 until the results were below the remedial

objectives. Remedial objectives were met by sample RPP-CS08-003 that was collected at a depth of approximately 3 feet bgs.

6.1.2 Grab Samples

All confirmation grab samples collected in the tar tank excavation, gas holder excavation, and southeast valve/wier box 24-inch cast iron pipe outlet excavation were below the residential remedial objectives, with the exception of two sample locations located inside of the gas holder excavation. Sample RPM-CSH-06U exceeded benzo(a)anthracene and benzo(a)pyrene. Sample RPM-CSH-07U exceeded benzene only. These two (2) upper sample locations are located along the north side of the gas holder excavation and were excavated an additional 6 inches and resampled. The second round of samples (RPM-CSH-06U-02 and RPM-CSH-07U-02) collected from the two areas were below the remedial objectives.

6.2 AIR SAMPLING

Ambient air monitoring results confirm that removal activities did not present adverse health effects for nearby residents. Analytical results show that the allowable concentration for BTEX constituents were not exceeded during handling of impacted material. Air monitoring results are presented in Appendix G.

7.0 SPECIAL CONDITIONS

In accordance with 35 IAC Part 742 and Section 742.1015, Subpart J, no special conditions apply to the Rogers Park Sub-Shop Pond Parcel site. The remedial action is a final action, and a Comprehensive No Further Remediation Letter is anticipated. No institutional controls or monitoring are required.

8.0 CONCLUSIONS

The remedial objectives for the Rogers Park Sub-Shop Pond Parcel site in Section 4.0 were met as a result of the excavation activities described in Section 5.0. All soil that exceeded remediation objectives was removed from the Pond Parcel. Remaining soil was confirmed to meet remediation objectives. No special conditions are required to be implemented on the site.

The data presented within this ROR/RAP/RACR is accurate and complete. No further remedial action activity is necessary on the Pond Parcel and a Comprehensive No Further Remediation letter is anticipated.

9.0 REFERENCES

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2. Burns & McDonnell, 2001b. *Rogers Park Sub-Shop Pond Parcel Site Investigation Report*. Chicago, Illinois. September.
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6. Hanson Engineers Incorporated, 1992. *Preliminary Site Investigation North Shore Avenue Station Gas Storage Facility; Chicago, Illinois*.
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10. Roy F. Weston, 2000. *Comprehensive Site Investigation Report, The Peoples Gas Light and Coke Company Rogers Park Sub-Shop Property, South Parcel, 6659 North Kedzie Avenue Chicago, Illinois*.
11. U.S. Environmental Protection Agency (USEPA) 1984. *Health Assessment Document for Inorganic Arsenic*. Research Triangle Park, NC.

TABLES

Table 1
Summary of Detected Constituents and Comparison with ~~Tier 1~~ Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB21-001 0'-1'	RPM-SB21-002 1'-2'	RPM-SB21-003 2'-3'	RPM-SB21-004 8'-10'	RPM-SB22-001 0'-0.5'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.006
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025 U	0.025 U	0.025 U	0.025 U	0.033
Acenaphthylene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.710
Anthracene	59,000	23,000	--	0.025 U	0.025 U	0.025 U	0.025 U	0.223
Benzo[a]anthracene	8	0.9	--	0.040	0.025 U	0.025 U	0.025 U	0.663
Benzo[b]fluoranthene	25	0.9	--	0.030	0.025 U	0.025 U	0.025 U	0.435
Benzo[k]fluoranthene	250	9	--	0.030	0.025 U	0.025 U	0.025 U	0.161
Benzo[g,h,i]perylene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.277
Benzo[a]pyrene	82	0.09	--	0.030	0.025 U	0.025 U	0.025 U	0.271
Chrysene	800	88	--	0.054	0.025 U	0.025 U	0.025 U	1.37
Dibenzof[a,h]anthracene	7.6	0.09	--	0.025 U	0.025 U	0.025 U	0.025 U	0.281
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.072	0.025 U	0.025 U	0.025 U	1.19
Fluorene	2,800	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.176
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.267
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthenre	--	--	--	0.033	0.025 U	0.025 U	0.025 U	0.431
Pyrene	21,000	2,300	--	0.070	0.025 U	0.025 U	0.025 U	1.32
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	7.58	16.50	9.89	6.71	5.13
Barium	1,800	5,500	690,000	364	85.10	67.00	71.40	392
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.617	0.50 U	0.50 U	0.50 U	1.36
Chromium***	28	390	270	32.9	31.90 NR	29.20	28.90 NR	49.5
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	678.0	21.70	20.30	16.00	3,220
Mercury	32	23	10	0.069	0.04 U	0.04 U	0.04 U	0.095
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver***	39	390	--	0.500 U	0.50 U	0.50 U	0.50 U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.074	NA	NA	NA	0.093
SPLP Chromium	1.0	--	--	NA	0.014	NA	0.005 U	NA

NOTES:

- (1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9 007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives		Sample Location and Depth (feet below ground surface)/Concentration				
			RPM-SB22-002 0.5'-1'	RPM-SB22-003 1'-2'	RPM-SB22-004 2'-3'	RPM-SB22-005 5'-7'	RPM-SB23-001 0'-0.5'
	Soil to GW	Ingestion	Inhalation	WT ~ 7'	WT ~ 7'	WT ~ 7'	WT ~ 7'
TCL VOCs (mg/kg)							
Benzene	0.17	22	0.8	0.002 U	0.002	0.002	0.002
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U
TCL SVOCs (mg/kg)							
Acenaphthene	2,900	4,700	--	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	--	--	--	0.160	0.372	0.025 U	0.025 U
Anthracene	59,000	23,000	--	0.047	0.113	0.025 U	0.039
Benz[a]anthracene	8	0.9	--	0.125	0.274	0.027	0.025 U
Benz[b]fluoranthene	25	0.9	--	0.089	0.230	0.025 U	0.100
Benz[k]fluoranthene	250	9	--	0.094	0.233	0.025 U	0.122
Benz[g,h,i]perylene	--	--	--	0.072	0.150	0.025 U	0.094
Benz[a]pyrene	82	0.09	--	0.240	0.268	0.025 U	0.025 U
Chrysene	800	88	--	0.239	0.500	0.034	0.025 U
Dibenz[a,h]anthracene	7.6	0.09	--	0.025 U	0.065	0.025 U	0.030
Dibenzofuran	--	--	--	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.145	0.413	0.025 U	0.025 U
Fluorene	2,800	3,100	--	0.025 U	0.090	0.025 U	0.025 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.025 U	0.152	0.025 U	0.025 U
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025 U	0.025 U	0.025 U	0.025 U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA
Phenanthrene	--	--	--	0.090	0.311	0.025 U	0.150
Pyrene	21,000	2,300	--	0.026	0.593	0.034	0.025 U
Priority Pollutant Metals (mg/kg)							
Antimony	20	31	--	NA	NA	NA	NA
Arsenic*	120	13	750	4.51	4.51	6.54	12.30
Barium	1,800	5,500	690,000	184	82.3	83.80	60.10
Beryllium	130,000	160	1,300	NA	NA	NA	NA
Cadmium	590	78	1,800	1.74	1.01	0.50 U	0.50 U
Chromium***	28	390	270	21.3	20.1	27.30	25.70
Copper	330,000	2,900	--	NA	NA	NA	NA
Lead**	--	400	--	7,230	950	30.40	19.40
Mercury	32	23	10	0.040 U	0.040 U	0.04 U	0.04 U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.00 U	1.00 U	1.00 U
Silver***	39	390	--	0.500 U	0.500 U	0.50 U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.25 U	0.25 U	0.25 U
SPLP Lead and Chromium (mg/L)							
SPLP Lead	0.1	--	--	0.005	0.031	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA

NOTES:

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- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB23-002 0.5'-1'	RPM-SB23-003 1'-2'	RPM-SB23-004 2'-3'	RPM-SB23-005 8'-10'	RPM-SB24-001 0.5'-1'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ 10'
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.005	0.002 U	0.002U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.006	0.005 U	0.005U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005U
Toluene	29	16,000	650	0.005 U	0.005 U	0.012	0.005 U	0.005U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.007	0.005 U	0.005U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Acenaphthylene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Anthracene	59,000	23,000	--	0.025 U	0.025 U	0.025 U	0.025 U	0.027
Benz[a]anthracene	8	0.9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.085
Benz[b]fluoranthene	25	0.9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.053
Benz[k]fluoranthene	250	9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.067
Benzol[g,h,i]perylene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.036
Benzol[a]pyrene	82	0.09	--	0.025 U	0.025 U	0.025 U	0.025 U	0.045
Chrysene	800	88	--	0.025 U	0.025 U	0.025 U	0.025 U	0.084
Dibenzol[a,h]anthracene	7.6	0.09	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.175
Fluorene	2,800	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.040
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.076
Pyrene	21,000	2,300	--	0.025	0.025 U	0.025 U	0.025 U	0.173
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	6.44	5.53	4.58	10.2	14.60
Barium	1,800	5,500	690,000	71.3	46.8	49.9	65.2	23.10
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500 U	0.5U
Chromium***	28	390	270	23.0	20.3	23.3	27.0	19.80
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	24.7	35.8	12.5	15.1	32.50
Mercury	32	23	10	0.040 U	0.040 U	0.040 U	0.040 U	0.04U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.00 U	1.00 U	1.00 U	1.04
Silver***	39	390	--	0.500 U	0.500 U	0.500 U	0.500 U	0.5U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB24-002 3-4'	RPM-SB24-003 5-7'	RPM-SB25-001 2-3'	RPM-SB25-002 5-7'	RPM-SB26-001 0-1'
	Soil to GW	Ingestion	Inhalation	WT ~ 10'	WT ~ 10'	WT ~ 9'	WT ~ 9'	WT - NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.007	0.002	0.002U	0.003J	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.005U	0.005 U
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005U	0.005 U
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005U	0.005 U
Xylenes	150	160,000	410	0.005U	0.005U	0.005U	0.005U	0.005 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025U	0.025U	0.025U	0.025U	0.025U
Acenaphthylene	--	--	--	0.025U	0.025U	0.025U	0.025U	0.025U
Anthracene	59,000	23,000	--	0.025U	0.025U	0.025U	0.025U	0.046
Benzo(a)anthracene	8	0.9	--	0.025U	0.025U	0.025U	0.025U	0.138
Benzo(b)fluoranthene	25	0.9	--	0.025U	0.025U	0.025U	0.025U	0.054
Benzo(k)fluoranthene	250	9	--	0.025U	0.025U	0.025U	0.025U	0.054
Benzo(g,h,i)perylene	--	--	--	0.025U	0.025U	0.025U	0.025U	0.025 U
Benzo(a)pyrene	82	0.09	--	0.025U	0.025U	0.025U	0.025U	0.060
Chrysene	800	88	--	0.025U	0.025U	0.025U	0.025U	0.171
Dibenz[a,h]anthracene	7.6	0.09	--	0.025U	0.025U	0.025U	0.025U	0.025 U
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.025U	0.025U	0.034	0.025U	0.338
Fluorene	2,800	3,100	--	0.025U	0.025U	0.025U	0.025U	0.025 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.025U	0.025U	0.025U	0.025U	0.026
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025U	0.025U	0.025U	0.025U	0.025 U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.025U	0.025U	0.025U	0.025U	0.159
Pyrene	21,000	2,300	--	0.025U	0.025U	0.040	0.025U	0.276
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	10.70	5.72	7.83	2.44	5.39
Barium	1,800	5,500	690,000	60.20	39.40	73.40	39.70	63.1
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.5U	0.5U	0.5U	0.5U	0.500 U
Chromium***	28	390	270	27.00	16.70	26.20	16.80	17.1
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	18.70	16.90	16.70	14.10	77.7
Mercury	32	23	10	0.050	0.044	0.04U	0.04U	0.134
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1U	1U	1U	1U	1.00 U
Silver***	39	390	--	0.5U	0.5U	0.5U	0.5U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600	--	0.25U	0.25U	0.25U	0.25U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	0.005 U
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB26-002 2-3'	RPM-SB26-003 8-10'	RPM-SB27-001 1-2'	RPM-SB27-002 2-3'	RPM-SB27-003 7-9'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.004	0.002	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.072	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	--	--	--	0.264	0.025 U	0.085	0.025 U	0.062
Anthracene	59,000	23,000	--	0.260	0.025 U	0.034	0.025 U	0.029
Benzo[a]anthracene	8	0.9	--	0.712	0.025 U	0.082	0.025 U	0.057
Benzo[b]fluoranthene	25	0.9	--	0.613	0.025 U	0.049	0.025 U	0.034
Benzo[k]fluoranthene	250	9	--	0.519	0.025 U	0.030	0.025 U	0.027
Benzo[g,h,i]perylene	--	--	--	0.329	0.025 U	0.025 U	0.025 U	0.029
Benzo[a]pyrene	82	0.09	--	1.21	0.025 U	0.048	0.025 U	0.036
Chrysene	800	88	--	0.810	0.025 U	0.122	0.025 U	0.119
Dibenz[a,h]anthracene	7.6	0.09	--	0.088	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	1.26	0.025 U	0.172	0.025 U	0.151
Fluorene	2,800	3,100	--	0.142	0.025 U	0.025 U	0.025 U	0.031
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.054	0.025 U	0.025 U	0.025 U	0.028
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025	0.025 U	0.025 U	0.025 U	0.025 U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.685	0.025 U	0.098	0.025 U	0.087
Pyrene	21,000	2,300	--	1.18	0.025 U	0.157	0.025 U	0.151
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	7.57	5.05	5.20	3.79	4.77
Barium	1,800	5,500	690,000	62.1	62.1	61.0	68.2	96.0
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chromium***	28	390	270	18.5	24.7	15.9	29.6	25.1
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**		400	--	122	12.5	281	18.6	14.0
Mercury	32	23	10	0.054	0.040 U	0.043	0.040 U	0.040 U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver	--	390	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.60	0.25 U	0.25 U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.034	NA	0.014	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

- (1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives		Sample Location and Depth (feet below ground surface)/Concentration				
			RPM-SB28-001 0'-1'	RPM-SB28-002 2'-3'	RPM-SB28-003 6'-8'	RPM-SB29-001 2'-3'	RPM-SB29-002 5'-7'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)							
Benzene	0.17	22	0.8	0.007	0.002 U	0.002 U	0.002U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.011	0.005 U	0.005 U	0.005U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005U
Toluene	29	16,000	650	0.005	0.005 U	0.005 U	0.005U
Xylenes (total)	150	160,000	410	0.050	0.005 U	0.005 U	0.005U
TCL SVOCs (mg/kg)							
Acenaphthene	2,900	4,700	--	0.025 U	0.025 U	0.025	0.029J
Acenaphthylene	--	--	--	0.126	0.025 U	0.025 U	0.267J
Anthracene	59,000	23,000	--	0.072	0.025 U	0.025 U	0.112
Benzo[a]anthracene	8	0.9	--	0.178	0.025 U	0.025 U	0.186
Benzo[b]fluoranthene	25	0.9	--	0.112	0.025 U	0.025 U	0.151
Benzo[k]fluoranthene	250	9	--	0.119	0.025 U	0.025 U	0.130
Benzo[g,h,i]perylene	--	--	--	0.075	0.025 U	0.025 U	0.1J
Benzo[a]pyrene	82	0.09	--	0.252	0.025 U	0.025 U	0.182
Chrysene	800	88	--	0.245	0.025 U	0.025 U	0.172
Dibenz[a,h]anthracene	7.6	0.09	--	0.028	0.025 U	0.025 U	0.055
Dibenzofuran	--	--	--	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.315	0.025 U	0.025 U	0.313
Fluorene	2,800	3,100	--	0.034	0.025 U	0.025 U	0.041
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.077	0.025 U	0.025 U	0.102
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025 U	0.025 U	0.025 U	0.025U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA
Phenanthrene	--	--	--	0.148	0.025 U	0.025 U	0.278
Pyrene	21,000	2,300	--	0.277	0.025 U	0.025 U	0.281
Priority Pollutant Metals (mg/kg)							
Antimony	20	31	--	NA	NA	NA	NA
Arsenic*	120	13	750	2.25	4.70	11.6	5.530
Barium	1,800	5,500	690,000	38.2	72.4	52.9	37,500
Beryllium	130,000	160	1,300	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500U
Chromium***	28	390	270	8.73	29.1 NR	29.6 NR	11,500
Copper	330,000	2,900	--	NA	NA	NA	NA
Lead**	--	400	--	446	19.5	30.8	38.9
Mercury	32	23	10	0.040 U	0.040 U	0.040 U	0.261
Nickel	14,000	1,600	13,000	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.17	1.00 U	1.000U
Silver***	39	390	--	0.500 U	0.500 U	0.500 U	0.500U
Thallium	34	6.3	--	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.25 U	0.25 U	0.250U
SPLP Lead and Chromium (mg/L)							
SPLP Lead	0.1	--	--	0.09	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	0.005 U	0.005	NA

NOTES:

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- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB29A-001 2-3'	RPM-SB29A-002 9-11'	RPM-SB30-001 2-3'	RPM-SB30-002 3-5'	RPM-SB30-003 7-9'
	Soil to GW	Ingestion	Inhalation	WT ~ 10'	WT ~ 10'	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	17.800	0.200	27.700	124.000	31.300
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	10.000	0.170	8.900	43.100	11.200
Styrene	18	16,000	1,500	0.600	0.084	0.084	0.100U	0.055
Toluene	29	16,000	650	2.670	0.397	0.136	0.144	0.820
Xylenes (total)	150	160,000	410	21.200	1.280	6.550	19.200	7.860
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	80.500	0.129J	0.530	2.110	3.820
Acenaphthylene	--	--	--	51.800	0.218J	0.218	2.710	2.840
Anthracene	59,000	23,000	--	149.000	0.41J	0.385	2.180	3.850
Benzo[a]anthracene	8	0.9	--	94.800	0.305J	0.394	2.590	4.730
Benzo[b]fluoranthene	25	0.9	--	19.700	0.1J	0.174	0.857	1.920
Benzo[k]fluoranthene	250	9	--	19.500	0.076J	0.128	0.673	1.370
Benzo[g,h,i]perylene	--	--	--	12.000	0.044J	0.077	0.384	0.738
Benzo[a]pyrene	82	0.09	--	57.200	0.136J	0.238	2.070	2.910
Chrysene	800	88	--	90.500	0.32J	0.405	2.590	5.010
Dibenz[a,h]anthracene	7.6	0.09	--	12.200	0.029J	0.051	0.356	0.574
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	155.000	0.45J	0.472	1.230	5.910
Fluorene	2,800	3,100	--	386.000	1.29J	1.330	3.270	6.240
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	13.000	0.045J	0.083	0.399	0.799
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	208.000	0.607J	1.700	9.460	8.540
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	376.000	1.24J	1.930	7.570	12.900
Pyrene	21,000	2,300	--	203.000	0.613J	0.653	3.000	8.430
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	4.180	5.300	4.180	18.000	4.630
Barium	1,800	5,500	690,000	95.700	58.800	91.600	70.900	45.500
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500U	0.500U	0.515	0.500U	0.500U
Chromium***	28	390	270	13.600	13.100	22.500	22.700	15.500
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	302.000	61.200	517.000	43.900	132.000
Mercury	32	23	10	0.189	0.103	0.040U	0.040U	0.040U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.000U	1.000U	1.000U	1.000U	1.000U
Silver***	39	390	--	0.500U	0.500U	0.500U	0.500U	0.500U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600	--	0.47U	0.25U	0.25U	0.25U	0.25U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (4) Shaded values exceeded Tier 1 screening level
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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB31-001 1-2'	RPM-SB31-002 2-3'	RPM-SB31-003 5-7'	RPM-SB61-001 0-1'	RPM-SB61-002 1-2'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.007	0.002U	0.002U	0.003	0.017
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005 U	0.005
Xylenes	150	160,000	410	0.009	0.005U	0.005U	0.005 U	0.005 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025U	0.025U	0.025U	0.070	0.883
Acenaphthylene	--	--	--	0.025U	0.025U	0.025U	1.060	8.090
Anthracene	59,000	23,000	--	0.025U	0.025U	0.025U	0.351	2.360
Benzo(a)anthracene	8	0.9	--	0.025U	0.025U	0.025U	0.741	1.320
Benzo(b)fluoranthene	25	0.9	--	0.025U	0.025U	0.025U	0.316	0.809
Benzo(k)fluoranthene	250	9	--	0.025U	0.025U	0.025U	0.389	0.607
Benzo(g,h,i)perylene	--	--	--	0.025U	0.025U	0.025U	0.318	2.140
Benzo(a)pyrene	82	0.09	--	0.025U	0.025U	0.025U	0.449	1.190
Chrysene	800	88	--	0.025U	0.025U	0.025U	0.803	1.340
Dibenz[a,h]anthracene	7.6	0.09	--	0.025U	0.025U	0.025U	0.170	0.792
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.025U	0.025U	0.025U	1.020	0.951
Fluorene	2,800	3,100	--	0.025U	0.025U	0.025U	0.221	1.950
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.025U	0.025U	0.025U	0.331	1.590
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	0.025U	0.025U	0.025U	0.025 U	1.900
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.025U	0.025U	0.025U	0.403	0.548
Pyrene	21,000	2,300	--	0.025U	0.025U	0.025U	0.981	2.740
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	3.590	33.900	9.520	5.560	3.070
Barium	1,800	5,500	690,000	62.400	52.800	37.900	73.3	50.8
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500U	0.500U	0.500U	0.500 U	0.500 U
Chromium***	28	390	270	20.700	27.200	14.100	16.6	14.0
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	19.400	18.500	15.500	228	203
Mercury	32	23	10	0.040U	0.040U	0.040U	0.118	0.048
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.000U	1.000U	1.000U	1.000 U	1.000 U
Silver***	39	390	--	0.500U	0.500U	0.500U	0.500 U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600	--	0.25U	0.25U	0.25U	0.25 U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB61-003 2-3'	RPM-SB61-004 4-6'	RPM-SB70-001 6-8'	RPM-SB71-001 6-8'	RPM-SB72-001 6-8'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ 10'	WT ~ 16'	WT ~ 9'
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	26.000	115.000	0.002U	0.002U	0.002U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	41.400	36.500	0.005U	0.005U	0.005U
Styrene	18	16,000	1,500	0.050 U	4.990	0.005U	0.005U	0.005U
Toluene	29	16,000	650	0.978	73.200	0.005U	0.005U	0.005U
Xylenes	150	160,000	410	64.100	72.200	0.005U	0.005U	0.005U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.735 J	5.150	0.025U	0.025U	0.025U
Acenaphthylene	--	--	--	0.769 J	6.700	0.025U	0.025U	0.041
Anthracene	59,000	23,000	--	0.649 J	7.910	0.025U	0.025U	0.025U
Benzo(a)anthracene	8	0.9	--	0.689 J	6.290	0.025U	0.025U	0.029
Benzo(b)fluoranthene	25	0.9	--	0.197 J	1.320	0.025U	0.025U	0.041
Benzo(k)fluoranthene	250	9	--	0.217 J	1.200	0.025U	0.025U	0.031
Benzo(g,h,i)perylene	--	--	--	0.144 J	0.587	0.025U	0.025U	0.030
Benzo(a)pyrene	82	0.09	--	0.339 J	1.780	0.025U	0.025U	0.035
Chrysene	800	88	--	0.745 J	6.610	0.025U	0.025U	0.056
Dibenz[a,h]anthracene	7.6	0.09	--	0.093 J	0.478	0.025U	0.025U	0.025U
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.762 J	7.810	0.025U	0.025U	0.043
Fluorene	2,800	3,100	--	1.270 J	14.400	0.025U	0.025U	0.025U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.163 J	0.712	0.025U	0.025U	0.027
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	18	1,600	1.8	1.380 J	15.600	0.025U	0.025U	0.025U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	1.740 J	33.800	0.025U	0.025U	0.031
Pyrene	21,000	2,300	--	1.510 J	10.300	0.025U	0.025U	0.063
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	4.130	5.140	6.03	3.12	2.24
Barium	1,800	5,500	690,000	63.100	48.000	27.60	34.40	51.10
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500U	0.500U	0.500U
Chromium***	28	390	270	20.2	20.9	14.50	18.90	22.70
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	20.7	13.5	12.10	14.10	42.70
Mercury	32	23	10	0.040 U	0.040 U	0.040U	0.040U	0.040U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.000 U	1.000 U	1.00U	1.00U	1.00U
Silver***	39	390	--	0.500 U	0.500 U	0.500U	0.500U	0.500U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600	--	0.25 U	0.25 U	0.25U	0.25U	0.25U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB73-001 3-5'	RPM-SB74-001 6-8'	RPM-SB75-001 7-8'	B-12 8-10'	B-13 3.5-4.5'
	Soil to GW	Ingestion	Inhalation	WT ~ 12'	WT ~ 5'	WT ~ 7.5'	WT ~ 8'	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002U	0.002U	0.002U	0.156	0.01
Carbon Disulfide	160	7,800	720	NA	NA	NA	0.033	0.005 U
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.006	0.157
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005 U	0.007
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005 U	0.005
Xylenes	150	160,000	410	0.031	0.005U	0.005U	0.062	0.143
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025U	0.025U	0.025U	0.33 UJ	10.6 J
Acenaphthylene	--	--	--	0.025U	0.040	0.025U	0.33 U	0.33 U
Anthracene	59,000	23,000	--	0.025U	0.026	0.025U	0.33 U	13.9
Benzo(a)anthracene	8	0.9	--	0.025U	0.056	0.025U	0.33 U	7.08
Benzo(b)fluoranthene	25	0.9	--	0.025U	0.025U	0.025U	0.33 U	1.22
Benzo(k)fluoranthene	250	9	--	0.025U	0.025U	0.025U	0.33 U	1.09
Benzo(g,h,l)perylene	--	--	--	0.025U	0.027	0.025U	0.33 U	2.87
Benzo(a)pyrene	82	0.09	--	0.025U	0.043	0.025U	0.33 U	1.81
Chrysene	800	88	--	0.026	0.061	0.025U	0.33 U	0.33 U
Dibenz[a,h]anthracene	7.6	0.09	--	0.025U	0.025U	0.025U	0.33 U	0.33 U
Dibenzofuran	--	--	--	NA	NA	NA	0.33 U	0.33 U
Fluoranthene	21,000	3,100	--	0.041	0.044	0.025U	0.33 U	0.33 U
Fluorene	2,800	3,100	--	0.025U	0.037	0.025U	0.33 U	0.33 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.025U	0.025U	0.025U	0.33 U	0.33 U
2-Methylnaphthalene	--	--	--	NA	NA	NA	0.33 U	0.33 U
Naphthalene	18	1,600	1.8	0.025U	0.025U	0.025U	0.33 U	0.33 U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	0.33 U	0.33 UJ
Phenanthrene	--	--	--	0.025U	0.055	0.025U	0.33 U	0.33 U
Pyrene	21,000	2,300	--	0.037	0.068	0.025U	0.33 U	0.33 U
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	2.3 U	1.9 U
Arsenic*	120	13	750	7.93	5.95	7.13	3	2.5
Barium	1,800	5,500	690,000	66.80	55.30	54.70	44.9	39.5
Beryllium	130,000	160	1,300	NA	NA	NA	0.46 U	0.47
Cadmium	590	78	1,800	0.500U	0.500U	0.500U	0.23 U	0.2
Chromium***	28	390	270	20.40	19.40	21.50	13.8	12.9
Copper	330,000	2,900	--	NA	NA	NA	17.1	16.7
Lead**	--	400	--	65.90	29.00	13.80	10.5	250
Mercury	32	23	10	0.040U	0.040U	0.040U	0.07	0.04 U
Nickel	14,000	1,600	13,000	NA	NA	NA	16.5	16.7
Selenium	2.4	390	--	1.00U	1.00U	1.00U	0.58 U	0.47
Silver***	39	390	--	0.500U	0.500U	0.500U	0.58 U	0.47 U
Thallium	34	6.3	--	NA	NA	NA	1.2 U	0.93 U
Zinc	32,000	23,000	--	NA	NA	NA	43.1	3880
Total Cyanide (amenable)	120	1,600	--	0.25U	0.25U	0.25U	NA	NA
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	0.0075 U	0.025
SPLP Chromium	1.0	--	--	NA	NA	NA	0.05 U	0.05 U

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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
	Soil to GW	Ingestion	Inhalation	B-13 13-14'	B-14 6-8'	B-14 Dup. 6-8'	B-15 7-8'	B-16 8-10'
				WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.005 U	0.005 U	NA	2.55 J	0.200 U
Carbon Disulfide	160	7,800	720	0.005 U	0.005 U	NA	0.028 J	0.25 U
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	NA	0.006 J	0.15 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	NA	1.78 J	0.15 U
Toluene	29	16,000	650	0.005 U	0.005 UJ	NA	0.005 UJ	0.2 U
Xylenes	150	160,000	410	0.005	0.005 U	NA	12.1 J	0.45 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.33 UJ	0.33 UJ	0.33 UJ	1.42 J	0.33 U
Acenaphthylene	--	--	--	0.33 U	0.33 U	0.33 U	7.96	1.75
Anthracene	59,000	23,000	--	0.33 U	0.33 U	0.33 U	6.98	5.84
Benzo(a)anthracene	8	0.9	--	0.33 U	0.33 U	0.33 U	4.13	2.7
Benzo(b)fluoranthene	25	0.9	--	0.33 U	0.33 U	0.33 U	0.723	0.361
Benzo(k)fluoranthene	250	9	--	0.33 U	0.33 U	0.33 U	0.546	0.362
Benzo(g,h,I)perylene	--	--	--	0.33 U	0.33 U	0.33 U	0.496	0.33 U
Benzo(a)pyrene	82	0.09	--	0.33 U	0.33 U	0.33 U	0.924	0.437
Chrysene	800	88	--	0.33 U	0.33 U	0.33 U	4.45	2.96
Dibenz[a,h]anthracene	7.6	0.09	--	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Dibenzofuran	--	--	--	0.33 U	0.33 U	0.33 U	0.617	0.33 U
Fluoranthene	21,000	3,100	--	0.33 U	0.33 U	0.33 U	6.62	4.64
Fluorene	2,800	3,100	--	0.33 U	0.33 U	0.33 U	7.51	5.80
Hexachlorocyclopentadiene	2200	550	10	0.33 U	0.33 UJ	0.33 UJ	0.33 U	0.33 J
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylnaphthalene	--	--	--	0.33 U	0.33 U	0.33 U	13.70	0.424 J
Naphthalene	18	1,600	1.8	0.33 U	0.33 U	0.33 U	17.20	0.577
N-nitrosodiphenylamine	5.6	130	--	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Phenanthrene	--	--	--	0.33 U	0.33 U	0.33 U	20.30	17.70
Pyrene	21,000	2,300	--	0.33 U	0.33 U	0.33 U	9.31	6.58 J
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	2.1 U	2.2 U	2 U	1.9 U	2.1 U
Arsenic*	120	13	750	9.3	8.8	3.7	8.2	6.4
Barium	1,800	5,500	690,000	35.9	58.2	43.9	34.9	50.4
Beryllium	130,000	160	1,300	0.59	0.72	0.69	0.53	0.67
Cadmium	590	78	1,800	0.21 U	0.51	0.44	0.19 U	0.21 U
Chromium***	28	390	270	17.2	20.6	21.7	16.1	20.7
Copper	330,000	2,900	--	35.8	26.4	29	25.9	29
Lead**	--	400	--	16.3	12.4	19.4	12.9	13.7
Mercury	32	23	10	0.04 U	0.04 U	0.04 U	0.07	0.04 U
Nickel	14,000	1,600	13,000	36.1	31.7	29.3	26.3	32.2
Selenium	2.4	390	--	0.55	0.91	0.51	0.49 U	0.53 U
Silver***	39	390	--	0.52 U	0.55 U	0.5 U	0.49 U	0.53 U
Thallium	34	6.3	--	1 U	1.1 U	1.2	0.97 U	1.1 U
Zinc	32,000	23,000	--	45.3	44	46.5	42.4	63.2
Total Cyanide (amenable)	120	1,600	--	NA	NA	NA	NA	NA
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
SPLP Chromium	1.0	--	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives		Sample Location and Depth (feet below ground surface)/Concentration					
			B-16 10-12'	B-16 Dup. 10-12'	B-18 6-8'	B-18 12-14'	SS-12 0-2'	
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.005 UJ	0.005 U	72.1	0.46	0.005 UJ
Carbon Disulfide	160	7,800	720	0.005 UJ	0.005 U	0.25 U	0.005 U	0.005 UJ
Ethylbenzene	19	7,800	400	0.005 UJ	0.005 U	59.4	0.01	0.005 UJ
Styrene	18	16,000	1,500	0.005 UJ	0.005 U	0.15 U	0.005	0.005 UJ
Toluene	29	16,000	650	0.005 UJ	0.005 UJ	69.7	0.052 J	0.005 UJ
Xylenes	150	160,000	410	0.005 UJ	0.005 U	115	0.03 J	0.005 UJ
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.33 UJ	NA	12.9 J	0.33 UJ	0.33 UJ
Acenaphthylene	--	--	--	0.33 U	NA	13.5	0.33 U	0.33 U
Anthracene	59,000	23,000	--	0.33 U	NA	21.1	0.33 U	0.33 U
Benzo(a)anthracene	8	0.9	--	0.33 U	NA	13.7	0.33 U	0.33 U
Benzo(b)fluoranthene	25	0.9	--	0.33 U	NA	1.19	0.33 U	0.33 U
Benzo(k)fluoranthene	250	9	--	0.33 U	NA	1.00	0.33 U	0.33 U
Benzo(g,h,l)perylene	--	--	--	0.33 U	NA	3.09	0.33 U	0.33 U
Benzo(a)pyrene	82	0.09	--	0.33 U	NA	1.64	0.33 U	0.33 U
Chrysene	800	88	--	0.33 U	NA	17.3	0.33 UJ	0.33 U
Dibenzof[a,h]anthracene	7.6	0.09	--	0.33 U	NA	1.80	0.33 UJ	0.33 U
Dibenzofuran	--	--	--	0.33 U	NA	0.33 U	0.33 UJ	0.33 U
Fluoranthene	21,000	3,100	--	0.33 U	NA	23.4	0.33 UJ	0.33 U
Fluorene	2,800	3,100	--	0.33 U	NA	35.0	0.33 UJ	0.33 U
Hexachlorocyclopentadiene	2200	550	10	0.33 UJ	NA	0.33 UJ	0.33 UJ	0.33 UJ
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.33 U	NA	2.25	0.33 UJ	0.33 U
2-Methylnaphthalene	--	--	--	0.33 UJ	NA	105	0.33 UJ	0.33 U
Naphthalene	18	1,600	1.8	0.33 U	NA	107	0.33 UJ	0.33 U
N-nitrosodiphenylamine	5.6	130	--	0.33	NA	0.33 U	0.33 UJ	0.33 U
Phenanthrene	--	--	--	0.33 U	NA	90.1	0.33 UJ	0.33 U
Pyrene	21,000	2,300	--	0.33 U	NA	33.0	0.33 UJ	0.33 U
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	2.1 U	NA	2.1 U	1.9 U	1.7
Arsenic*	120	13	750	8.3	NA	4.2	6.9	7.3
Barium	1,800	5,500	690,000	48.8	NA	51.6	48.8	66.3
Beryllium	130,000	160	1,300	0.61	NA	0.72	0.64	0.89
Cadmium	590	78	1,800	0.21 U	NA	0.43	0.44	0.4
Chromium***	28	390	270	19.1	NA	21.5	19.2	23.8
Copper	330,000	2,900	--	27.2	NA	26.1	27.3	25
Lead**	--	400	--	12.7	NA	11.8	11.6	39.2
Mercury	32	23	10	0.04 U	NA	0.04 U	0.1	0.04 U
Nickel	14,000	1,600	13,000	28.6	NA	29.7	30.4	30.8
Selenium	2.4	390	--	0.52 U	NA	0.51 U	0.5 U	0.7
Silver***	39	390	--	0.52 U	NA	0.51 U	0.48 U	0.48
Thallium	34	6.3	--	1 U	NA	1.3	0.96	0.86
Zinc	32,000	23,000	--	39.6	NA	44.5	41.5	60.7
Total Cyanide (amenable)	120	1,600	--	NA	NA	NA	NA	NA
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.0075 U	NA	0.0075 U	0.0075 U	0.013
SPLP Chromium	1.0	--	--	0.05 U	NA	0.05 U	0.005 U	0.05 U

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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration			
	Soil to GW	Ingestion	Inhalation	SS-12 Dup. 0'-2'	WT ~ NE		
				WT ~ NE			
TCL VOCs (mg/kg)							
Benzene	0.17	22	0.8	0.005 U			
Carbon Disulfide	160	7,800	720	0.005 U			
Ethylbenzene	19	7,800	400	0.005 U			
Styrene	18	16,000	1,500	0.005 U			
Toluene	29	16,000	650	0.005 U			
Xylenes	150	160,000	410	0.005 U			
TCL SVOCs (mg/kg)							
Acenaphthene	2,900	4,700	--	0.33 U			
Acenaphthylene	--	--	--	0.33 U			
Anthracene	59,000	23,000	--	0.33 U			
Benzo(a)anthracene	8	0.9	--	0.33 U			
Benzo(b)fluoranthene	25	0.9	--	0.33 U			
Benzo(k)fluoranthene	250	9	--	0.33 U			
Benzo(g,h,i)perylene	--	--	--	0.33 U			
Benzo(a)pyrene	82	0.09	--	0.33 U			
Chrysene	800	88	--	0.33 U			
Dibenzof[a,h]anthracene	7.6	0.09	--	0.33 U			
Dibenzofuran	--	--	--	0.33 U			
Fluoranthene	21,000	3,100	--	0.33 U			
Fluorene	2,800	3,100	--	0.33 U			
Hexachlorocyclopentadiene	2200	550	10	0.33 U			
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.33 U			
2-Methylnaphthalene	--	--	--	0.33 U			
Naphthalene	18	1,600	1.8	0.33 U			
N-nitrosodiphenylamine	5.6	130	--	0.33 U			
Phenanthrene	--	--	--	0.33 U			
Pyrene	21,000	2,300	--	0.33 U			
Priority Pollutant Metals (mg/kg)							
Antimony	20	31	--	1.8 U			
Arsenic*	120	13	750	7.9			
Barium	1,800	5,500	690,000	57.8			
Beryllium	130,000	160	1,300	0.8			
Cadmium	590	78	1,800	0.39			
Chromium***	28	390	270	22.2			
Copper	330,000	2,900	--	23.7			
Lead**	--	400	--	24.3			
Mercury	32	23	10	0.1			
Nickel	14,000	1,600	13,000	31.8			
Selenium	2.4	390	--	0.52			
Silver***	39	390	--	0.45 U			
Thallium	34	6.3	--	0.91 U			
Zinc	32,000	23,000	--	49.6			
Total Cyanide (amenable)	120	1,600	--	NA			
SPLP Lead and Chromium (mg/L)							
SPLP Lead	0.1	--	--	0.017			
SPLP Chromium	1.0	--	--	0.05 U			

NOTES:

- (1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective
- (9) Tier 1 inhalation objective for naphthalene pertains to construction worker scenario, because it is more stringent than residential scenario

Table 2
Final Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Final Remediation Objective
	Soil to GW	Ingestion	Inhalation	
TCL VOCs (mg/kg)				
Benzene	0.17	22	0.8	0.17
Ethylbenzene	19	7,800	400	19
Toluene	29	16,000	650	29
TCL SVOCs (mg/kg)				
Benzo[a]anthracene	8	0.9	--	0.9
Benzo[b]fluoranthene	25	0.9	--	0.9
Benzo[k]fluoranthene	250	9	--	9
Benzo[a]pyrene	82	0.09	--	0.09
Chrysene	800	88	--	88
Dibenzo[a,h]anthracene	7.6	0.09	--	0.09
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.9
Naphthalene	18	1,600	1.8*	1.8
Priority Pollutant Metals (mg/kg)				
Chromium***	28	390	270	28
Lead**	--	400	--	400
SPLP Lead and Chromium (mg/L)				
SPLP Lead	0.1	--	--	0.1
SPLP Chromium	1.0	--	--	1.0

NOTES:

- (1) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (2) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (3) * Tier 1 inhalation objective for naphthalene pertains to construction worker scenario because it is more stringent than the residential scenario

Table 3
Meteorological Data During Excavation
Rogers Park Pond Parcel

Date	Time	Outside Temperature (°F)	Wind Speed (mph)	High Wind Speed (mph)	Wind Direction (1)	Barometer Pressure (in-Hg)
7/19/01	3:00p	--	3	12	NW	30.029
7/19/01	3:30p	--	4	12	NW	30.019
7/19/01	4:00p	--	4	10	NW	30.013
7/20/01	7:00a	--	0	0	---	30.048
7/20/01	12:00p	--	3	8	NNW	29.954
7/20/01	4:00p	--	4	11	NW	29.906
7/23/01	7:00a	--	3	8	ENE	29.832
7/23/01	12:00p	--	4	9	E	29.836
7/23/01	4:00p	--	2	9	NW	29.845
7/24/01	7:00a	--	0	2	NE	29.864
7/24/01	12:00p	--	3	9	NW	29.877
7/24/01	4:00p	--	3	10	NW	29.836
7/25/01	7:00a	--	4	9	W	29.849
7/25/01	12:00p	--	6	14	W	29.882
7/25/01	4:00p	--	8	20	W	29.889
7/26/01	7:00a	--	2	7	WNW	30.031
7/26/01	12:00p	--	5	13	WNW	30.115
7/26/01	4:00p	--	7	16	W	30.12
7/27/01	7:00a	--	3	9	N	30.198
7/27/01	12:00p	--	3	9	NNW	30.191
7/27/01	4:00p	--	4	11	NW	30.129
7/30/01	7:00a	--	1	3	W	29.975
7/30/01	12:00p	81.1	3	9	N	29.983
7/30/01	4:00p	--	4	9	N	29.96
7/31/01	7:00a	--	2	6	ENE	30.069
7/31/01	12:00p	--	3	12	E	30.068
7/31/01	4:00p	--	5	15	N	30.037
8/01/01	7:00a	--	4	11	ENE	30.112
8/01/01	12:00p	--	6	15	NNE	30.125
8/01/01	4:00p	--	5	11	NE	30.088
8/02/01	7:00a	--	2	10	NW	30.116
8/02/01	12:00p	--	1	7	ESE	30.101
8/02/01	4:00p	--	1	5	W	30.067
8/03/01	7:00a	--	2	5	NE	30.013
8/03/01	12:00p	--	3	10	SW	30.032
8/03/01	4:00p	--	5	9	SW	29.983
8/06/01	7:00a	--	0	4	N	30.113
8/06/01	12:00p	--	4	14	NE	30.113
8/06/01	4:00p	--	4	13	NE	30.041
8/07/01	7:00a	--	2	7	ENE	30.069
8/07/01	12:00p	--	6	13	SE	30.048
8/07/01	4:00p	--	2	7	W	29.99
8/08/01	7:00a	--	2	6	ENE	29.991
8/08/01	12:00p	--	5	11	NE	29.965
8/08/01	4:00p	--	6	14	NNE	29.891
8/09/01	7:00a	--	2	5	N	29.853
8/09/01	12:00p	93.9	5	14	NE	29.79
8/09/01	4:00p	--	7	19	NNE	29.712
8/10/01	7:00a	--	7	16	SSW	29.92
8/10/01	12:00p	--	7	17	S	29.994

Notes:

(1) The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from,

however, after this time, the wind direction given is the direction the wind is blowing from.

(2) mph - miles per hour

(3) °F - degrees Fahrenheit

(4) in-Hg - inches of mercury

Table 3 (Continued)
Meteorological Data During Excavation
Rogers Park Pond Parcel

Date	Time	Outside Temperature (°F)	Wind Speed (mph)	High Wind Speed (mph)	Wind Direction (1)	Barometer Pressure (in-Hg)
8/10/01	4:00p	--	7	16	SSW	30.006
8/13/01	7:00a	70.9	6	13	SSW	30.071
8/13/01	12:00p	73	9	19	SW	30.138
8/13/01	4:00p	--	8	21	SSW	30.119
8/14/01	7:00a	--	3	6	SE	30.117
8/14/01	12:00p	--	5	14	SW	30.088
8/14/01	4:00p	--	3	8	SW	30.043
8/15/01	7:00a	--	0	2	NNE	29.954
8/15/01	12:00p	--	4	11	NNE	29.895
8/15/01	4:00p	--	4	8	SE	29.891
8/16/01	7:00a	--	6	13	N	29.634
8/16/01	12:00p	--	8	15	SE	29.694
8/16/01	4:00p	--	6	14	E	29.784
8/17/01	7:00a	--	2	8	ESE	29.956
8/17/01	12:00p	--	7	16	ESE	29.983
8/17/01	4:00p	--	5	10	NNE	29.951
8/20/01	7:00a	--	3	6	SE	29.985
8/20/01	12:00p	--	7	15	SSW	30.019
8/20/01	4:00p	--	4	11	SW	29.998
8/21/01	7:00a	--	0	2	NNW	30.043
8/21/01	12:00p	--	7	17	N	30.013
8/21/01	4:00p	--	9	20	N	29.912
8/22/01	7:00a	--	4	9	N	29.869
8/22/01	12:00p	--	10	21	N	29.864
8/22/01	4:00p	--	5	12	SSW	29.857
8/23/01	7:00a	--	1	3	ENE	29.931
8/23/01	12:00p	--	6	11	SW	29.994
8/23/01	4:00p	--	4	10	SW	30.013
8/24/01	7:00a	--	0	2	SSW	30.06
8/24/01	12:00p	--	2	6	W	30.034
8/24/01	4:00p	--	4	13	SW	29.989
8/27/01	7:00a	--	0	3	SE	29.943
8/27/01	12:00p	--	6	13	NNE	29.84
8/27/01	4:00p	--	6	16	NNE	29.776
8/28/01	7:00a	--	3	10	ESE	29.881
8/28/01	12:00p	--	5	11	SW	29.96
8/28/01	4:00p	--	4	11	SW	29.958
8/29/01	7:00a	--	0	0	---	30.012
8/29/01	12:00p	--	2	8	NW	29.989
8/29/01	4:00p	--	3	7	W	29.965
8/30/01	7:00a	--	4	9	N	29.803
8/30/01	12:00p	--	6	18	NNE	29.768
8/30/01	4:00p	--	5	13	ENE	29.729
8/31/01	7:00a	--	2	5	NE	29.776
8/31/01	12:00p	--	6	13	S	29.851
8/31/01	4:00p	--	0	0	---	29.96
9/04/01	7:00a	--	0	0	---	30.063
9/04/01	12:00p	--	6	15	N	30.147
9/04/01	4:00p	--	8	17	N	30.143
9/05/01	7:00a	--	2	5	ESE	30.218
9/05/01	12:00p	--	4	9	ESE	30.23
9/05/01	4:00p	--	4	10	NE	30.169

Notes:

(1) The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from, however, after this time, the wind direction given is the direction the wind is blowing from.

(2) mph - miles per hour

(3) °F - degrees Fahrenheit

(4) in-Hg - inches of mercury

Table 3 (Continued)
Meteorological Data During Excavation
Rogers Park Pond Parcel

Date	Time	Outside Temperature (°F)	Wind Speed (mph)	High Wind Speed (mph)	Wind Direction (1)	Barometer Pressure (in-Hg)
9/06/01	7:00a	--	3	8	SE	30.127
9/06/01	10:00a	79.5	6	12	SE	30.095
9/07/01	8:00a	--	4	11	SSE	29.806
9/07/01	12:00p	--	8	17	SSE	29.771
9/07/01	4:00p	--	10	26	SE	29.7
9/10/01	7:00a	--	2	5	SW	30.141
9/10/01	12:00p	--	7	20	S	30.14
9/10/01	4:00p	--	6	15	WSW	30.146
9/11/01	7:00a	--	0	0	---	30.312
9/11/01	12:00p	--	4	10	E	30.29
9/11/01	4:00p	--	3	10	E	30.221
9/12/01	7:00a	--	2	6	SE	30.169
9/12/01	12:00p	--	5	11	S	30.121
9/12/01	4:00p	--	5	11	SW	30.059
9/13/01	7:00a	--	5	16	NNE	30.206
9/13/01	12:00p	--	8	21	N	30.264
9/13/01	4:00p	--	7	17	N	30.278
9/14/01	7:00a	--	4	13	ENE	30.412
9/14/01	12:00p	--	6	15	ENE	30.413
9/14/01	4:00p	--	5	13	NE	30.346
9/17/01	7:00a	--	1	3	SSE	30.066
9/17/01	12:00p	--	3	6	SW	30.07
9/17/01	4:00p	--	3	8	N	30.024
9/18/01	7:00a	--	0	3	NNE	30.015
9/18/01	12:00p	--	4	12	ENE	30.002
9/18/01	4:00p	--	4	10	N	29.951
9/19/01	7:00a	--	5	13	SSE	29.557
9/19/01	12:00p	--	4	9	SSW	29.566
9/19/01	4:00p	--	8	18	WNW	29.661
9/20/01	7:00a	--	2	4	SW	29.932
9/20/01	12:00p	--	7	20	WNW	29.952
9/20/01	4:00p	--	3	9	SW	29.908
9/21/01	7:00a	--	2	5	WSW	29.827
9/21/01	12:00p	--	6	14	NW	29.883
9/21/01	4:00p	--	4	9	N	29.928
9/24/01	7:00a	47.8	8	19	NNW	30.142
9/24/01	12:00p	--	11	28	NNW	30.196
9/24/01	4:00p	--	11	26	NNW	30.196
9/25/01	7:00a	--	7	14	NW	30.167
9/25/01	12:00p	--	9	21	NW	30.143
9/25/01	4:00p	--	5	12	N	30.078
9/26/01	7:00a	--	5	14	WNW	29.993
9/26/01	12:00p	--	6	16	WNW	29.964
9/26/01	4:00p	--	10	20	WNW	29.93

Notes:

(1) The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from, however, after this time, the wind direction given is the direction the wind is blowing from.

(2) mph - miles per hour

(3) °F - degrees Fahrenheit

(4) in-Hg - inches of mercury

Table 4
Pre-Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

Date Sampled	Sample ID	Concentration (ppbv)				
		Benzene	Toluene	Ethyl Benzene	m,p-Xylene	o-Xylene
07/20/2001	RPM-E-SUM-07-20-01	1.2 U	2.7	1.2 U	1.3	1.2 U
	RPM-S-SUM-07-20-01	1.2 U	9.1	1.2 U	1.8	1.2 U
	RPM-W-SUM-07-20-01	1.2 U	5.2	1.2 U	2.3	1.2 U
07/23/2001	RPM-E-SUM-07-23-01	1.1 U	1.5	1.1 U	1.1	1.1 U
	RPM-S-SUM-07-23-01	1.5	3.8	1.2	4.1	1.9
	RPM-N-SUM-07-23-01	0.88 U	1.5	0.88 U	1.4	0.88 U
	RPM-W-SUM-07-23-01	2.6	4.5	1 U	2.3	1.3
07/24/2001	RPM-N-SUM-07-24-01	0.94 U	1.1	0.94 U	0.94 U	0.94 U
	RPM-S-SUM-07-24-01	0.94 U	1	0.94 U	1	0.94 U
	RPM-W-SUM-07-24-01	0.94 U	1.3	0.94 U	1	0.94 U
	RPM-E-SUM-07-24-01	0.98 U	1.7	0.98 U	1.5	0.98 U

NOTES:

(1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit

(2) ppbv - parts per billion by volume

Table 5
Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

Date Sampled	Sample ID	Concentration (ppbv)									
		Benzene		Toluene		Ethylbenzene		m,p-Xylene		o-Xylene	
Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result
07/25/2001	RPM-W-SUM-07-25-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U	--	0.92 U	--	0.92 U
07/26/2001	RPM-N-SUM-07-26-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U	--	0.92 U	--	0.92 U
	RPM-W-SUM-07-26-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U	--	0.92 U	--	0.92 U
07/27/2001	RPM-N-SUM-07-27-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U	--	0.98 U	--	0.98 U
	RPM-S-SUM-07-27-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U	--	0.98 U	--	0.98 U
	RPM-E-SUM-07-27-01	39	9.6	2,211	1.7	4,883	2.1	--	2.9	--	1.4
	RPM-W-SUM-07-27-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U	--	1 U
07/30/2001	RPM-S-SUM-07-30-01	39	1.1	2,211	0.98 U	4,883	0.98 U	--	0.98 U	--	0.98 U
	RPM-E-SUM-07-30-01	39	1.3	2,211	1 U	4,883	1 U	--	1 U	--	1 U
07/31/2001	RPM-N-SUM-07-31-01	39	2.2	2,211	1.2	4,883	0.98 U	--	0.98 U	--	0.98 U
	RPM-E-SUM-07-31-01	39	3.6	2,211	1.2	4,883	1 U	--	1.3	--	1 U
	RPM-E-ERI-SUM	39	3.88 J	2,211	0.85 J	4,883	2.44 J	--	1.97 J	--	0.87 J
08/01/2001	RPM-N-SUM-08-01-01	39	0.96 U	2,211	0.96	4,883	0.96 U	--	0.96 U	--	0.96 U
	RPM-S-SUM-08-01-01	39	1.2	2,211	1	4,883	0.94 U	--	1	--	0.94 U
	RPM-E-SUM-08-01-01	39	2.7	2,211	1.1	4,883	0.96 U	--	0.99	--	0.96 U
	RPM-W-SUM-08-01-01	39	0.96 U	2,211	1.6	4,883	0.96 U	--	1	--	0.96 U
	RPM-N-ERI-SUM	39	3.82	2,211	2.14	4,883	0.72	--	1.4	--	0.58
08/02/2001	RPM-N-SUM-08-02-01	39	3.3	2,211	3.2	4,883	1 U	--	2.5	--	1
	RPM-S-SUM-08-02-01	39	7.9	2,211	18	4,883	3.8	--	21	--	5.9
	RPM-E-SUM-08-02-01	39	15	2,211	6.6	4,883	3.9	--	5.7	--	2.4
	RPM-W-SUM-08-02-01	39	10	2,211	8.2	4,883	2.6	--	11	--	3
08/03/2001	RPM-S-SUM-08-03-01	39	2.1	2,211	1.2	4,883	1 U	--	1.3	--	1 U
	RPM-W-SUM-08-03-01	39	1.6	2,211	1.9	4,883	1 U	--	1.2	--	1 U
08/06/2001	RPM-N-SUM-08-06-01	39	8.5	2,211	4.8	4,883	1.5	--	3.2	--	1.4
	RPM-S-SUM-08-06-01	39	1.2	2,211	2.5	4,883	0.98 U	--	1.6	--	0.98 U
	RPM-E-SUM-08-06-01	39	17	2,211	6.7	4,883	3	--	5.4	--	2.7
	RPM-W-SUM-08-06-01	39	1.3	2,211	2.1	4,883	1 U	--	1.2	--	1 U
08/07/2001	RPM-N-SUM-08-07-01	39	3.4	2,211	2.4	4,883	0.98 U	--	1.9	--	0.98 U
	RPM-S-SUM-08-07-01	39	1.8	2,211	1.8	4,883	0.98 U	--	1.6	--	0.98 U
	RPM-E-SUM-08-07-01	39	23	2,211	12	4,883	2.5	--	7	--	2.7
	RPM-W-SUM-08-07-01	39	3.9	2,211	3.6	4,883	1 U	--	1.8	--	1 U
08/08/2001	RPM-N-SUM-08-08-01	39	8.6	2,211	5.4	4,883	1.3	--	3.7	--	1.4 J
	RPM-E-SUM-08-08-01	39	37	2,211	16	4,883	5.7	--	13	--	5 J
08/09/2001	RPM-N-SUM-08-09-01	39	4.8	2,211	3.7	4,883	1 U	--	2.6	--	1.2
	RPM-S-SUM-08-09-01	39	1.1 U	2,211	1.3	4,883	1.1 U	--	1.3	--	1.1 U
	RPM-E-SUM-08-09-01	39	6.6	2,211	4.1	4,883	1.4	--	4.3	--	1.7
	RPM-W-SUM-08-09-01	39	1.1 U	2,211	1.3	4,883	1.1 U	--	2.5	--	1.5
08/10/2001	RPM-S-SUM-08-10-01	39	2	2,211	2	4,883	1.2	--	1.2 U	--	1.2 U
	RPM-W-SUM-08-10-01	39	1.2 U	2,211	1.2 U	4,883	1.2 U	--	1.2 U	--	1.2 U
08/13/2001	RPM-S-SUM-08-13-01	39	2.6	2,211	1.1	4,883	0.96 U	--	0.96 U	--	0.96 U
	RPM-W-SUM-08-13-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	1.5	--	0.96 U
08/14/2001	RPM-N-SUM-08-14-01	39	1.1 U	2,211	1.3	4,883	1.1 U	--	1.1 U	--	1.1 U
	RPM-S-SUM-08-14-01	39	1.1 U	2,211	1.2	4,883	1.1 U	--	1.3	--	1.1 U
	RPM-E-SUM-08-14-01	39	0.88 U	2,211	1.2	4,883	0.88 U	--	1.3	--	0.88 U
	RPM-W-SUM-08-14-01	39	1.1 U	2,211	1.2	4,883	1.1 U	--	1.7	--	1.1 U
08/15/2001	RPM-N-SUM-08-15-01	39	1	2,211	1.9	4,883	1 U	--	1 U	--	1 U
	RPM-E-SUM-08-15-01	39	1 U	2,211	2.4	4,883	1 U	--	1 U	--	1 U
	RPM-W-SUM-08-15-01	39	1 U	2,211	3.2	4,883	1 U	--	1.3	--	1 U

NOTES:

- (1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J - Indicates estimated value.
- (3) ppbv - parts per billion by volume

Table 5 (Continued)
Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

Date Sampled	Sample ID	Concentration (ppbv)									
		Benzene		Toluene		Ethylbenzene		m,p-Xylene		o-Xylene	
		Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result
08/16/2001	RPM-N-SUM-08-16-01	39	1 U	2,211	1.8	4,883	1 U	--	1	--	1 U
	RPM-S-SUM-08-16-01	39	1 U	2,211	1.4	4,883	1 U	--	1 U	--	1 U
	RPM-E-SUM-08-16-01	39	1 U	2,211	1.3	4,883	1 U	--	1 U	--	1 U
08/17/2001	RPM-N-SUM-08-17-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U	--	1 U
	RPM-S-SUM-08-17-01	39	1 U	2,211	1.2	4,883	1 U	--	1 U	--	1 U
	RPM-E-SUM-08-17-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U	--	1 U
	RPM-W-SUM-08-17-01	39	1 U	2,211	1 J	4,883	1 U	--	1 U	--	1 U
08/20/2001	RPM-S-SUM-08-20-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U	--	1 U
	RPM-E-SUM-08-20-01	39	0.96 U	2,211	1.2	4,883	0.96 U	--	0.96 U	--	0.96 U
	RPM-W-SUM-08-20-01	39	1 U	2,211	1.2	4,883	1 U	--	1.4	--	1 U
08/21/2001	RPM-N-SUM-08-21-01	39	0.96 U	2,211	2.3	4,883	0.96 U	--	1.7	--	0.96 U
	RPM-E-SUM-08-21-01	39	0.96 U	2,211	2.3	4,883	0.96 U	--	1.1	--	0.96 U
08/22/2001	RPM-N-SUM-08-22-01	39	1 U	2,211	1.6	4,883	1 U	--	1 U	--	1 U
	RPM-S-SUM-08-22-01	39	1 U	2,211	5.3	4,883	1 U	--	1 U	--	1 U
	RPM-E-SUM-08-22-01	39	1 U	2,211	5	4,883	1 U	--	1 J	--	1 U
	RPM-W-SUM-08-22-01	39	1 U	2,211	4.9	4,883	1 U	--	1 U	--	1 U
08/23/2001	RPM-N-SUM-08-23-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U	--	0.98 U	--	0.98 U
	RPM-S-SUM-08-23-01	39	0.98 U	2,211	2.3	4,883	0.98 U	--	0.98 U	--	0.98 U
	RPM-E-SUM-08-23-01	39	0.98 U	2,211	3.3	4,883	3.2	--	11	--	6
	RPM-W-SUM-08-23-01	39	0.98 U	2,211	1.9	4,883	0.98 U	--	0.98 U	--	0.98 U
08/24/2001	RPM-N-SUM-08-24-01	39	1.1 U	2,211	2.8	4,883	2.7	--	10	--	5.8
	RPM-S-SUM-08-24-01	39	1.1 U	2,211	6.1	4,883	1.1 U	--	1.1 U	--	1.1 U
	RPM-E-SUM-08-24-01	39	1.1 U	2,211	2.6	4,883	2.2	--	8.2	--	4.4
	RPM-W-SUM-08-24-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U	--	1.1 U
08/27/2001	RPM-N-SUM-08-27-01	39	1 U	2,211	2	4,883	1 U	--	1 U	--	1 U
	RPM-S-SUM-08-27-01	39	1 U	2,211	2.3	4,883	1 U	--	3.6	--	2.6 J
	RPM-E-SUM-08-27-01	39	1 U	2,211	2.1	4,883	1 U	--	1 U	--	1 U
	RPM-W-SUM-08-27-01	39	1 U	2,211	2	4,883	1 U	--	1 U	--	1 U
08/28/2001	RPM-S-SUM-08-28-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U	--	1 U
	RPM-W-SUM-08-28-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U	--	1 U
08/29/2001	RPM-N-SUM-08-29-01	39	1 U	2,211	5.5	4,883	1.6	--	1.1	--	1 U
	RPM-W-SUM-08-29-01	39	1.3	2,211	2.1	4,883	1 U	--	1 U	--	1 U
08/30/2001	RPM-N-SUM-08-30-01	39	1 U	2,211	1.7	4,883	1 U	--	1 U	--	1 U
	RPM-S-SUM-08-30-01	39	1.2 U	2,211	1.9	4,883	1.2 U	--	1.8	--	1.2 U
	RPM-E-SUM-08-30-01	39	1.2 U	2,211	1.8	4,883	1.2 U	--	1.2 U	--	1.2 U
	RPM-W-SUM-08-30-01	39	1.2 U	2,211	1.6	4,883	1.2 U	--	1.2 U	--	1.2 U
08/31/2001	RPM-S-SUM-08-31-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U	--	1.1 U
09/04/2001	RPM-S-SUM-09-04-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	0.96 U	--	0.96 U
09/05/2001	RPM-N-SUM-09-05-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U	--	1 U
	RPM-S-SUM-09-05-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U	--	1 U
	RPM-E-SUM-09-05-01	39	1 U	2,211	1	4,883	1 U	--	1 U	--	1 U
	RPM-W-SUM-09-05-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U	--	0.98 U	--	0.98 U
09/06/2001	RPM-N-SUM-09-06-01	39	1.1 U	2,211	2.4	4,883	1.1 U	--	1.1 U	--	1.1 U
	RPM-W-SUM-09-06-01	39	1.1	2,211	2.8	4,883	1.1 U	--	1.2	--	1.1 U
09/07/2001	RPM-N-SUM-09-07-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U	--	1.1 U
	RPM-W-SUM-09-07-01	39	1.1 U	2,211	1.3	4,883	1.1 U	--	1.1 U	--	1.1 U

NOTES:

(1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.

(2) J - Indicates estimated value.

(3) ppbv - parts per billion by volume

Table 5 (Continued)
Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

Date Sampled	Sample ID	Concentration (ppbv)							
		Benzene		Toluene		Ethylbenzene		m,p-Xylene	
		Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result
09/10/2001	RPM-N-SUM-09-10-01	39	0.98 U	2,211	1.4	4,883	0.98 U	--	0.98 U
	RPM-S-SUM-09-10-01	39	0.98 U	2,211	1.1	4,883	0.98 U	--	0.98 U
	RPM-E-SUM-09-10-01	39	0.96 U	2,211	1	4,883	0.96 U	--	0.96 U
	RPM-W-SUM-09-10-01	39	0.98 U	2,211	1.2	4,883	0.98 U	--	0.98 U
09/11/2001	RPM-N-SUM-09-11-01	39	0.98 U	2,211	3	4,883	0.98 U	--	2.4
	RPM-W-SUM-09-11-01	39	1 U	2,211	2.6	4,883	1 U	--	1 U
09/12/2001	RPM-N-SUM-09-12-01	39	1 U	2,211	1.2	4,883	1 U	--	1 U
	RPM-W-SUM-09-12-01	39	1 U	2,211	1.5	4,883	1 U	--	1 U
09/13/2001	RPM-N-SUM-09-13-01	39	1 U	2,211	2	4,883	1 U	--	1 U
	RPM-S-SUM-09-13-01	39	0.88 U	2,211	4.9	4,883	0.88 U	--	0.88 U
	RPM-E-SUM-09-13-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-W-SUM-09-13-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
09/14/2001	RPM-S-SUM-09-14-01	39	1.1 U	2,211	5.2	4,883	6.3	--	25
	RPM-W-SUM-09-14-01	39	0.96 U	2,211	4.8	4,883	6.7	--	26
09/19/2001	RPM-N-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U	--	0.98 U
	RPM-S-SUM-09-19-01	39	0.98 U	2,211	1.2	4,883	0.98 U	--	0.98 U
	RPM-E-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U	--	0.98 U
	RPM-W-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U	--	0.98 U
09/20/2001	RPM-N-SUM-09-20-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-S-SUM-09-20-01	39	1 U	2,211	1	4,883	1 U	--	1 U
	RPM-E-SUM-09-20-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
09/21/2001	RPM-N-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
	RPM-S-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
	RPM-E-SUM-09-21-01	39	1.1 U	2,211	1.1	4,883	1.1 U	--	1.1 U
	RPM-W-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
09/24/2001	RPM-S-SUM-09-24-01	39	0.86 U	2,211	0.86 U	4,883	0.86 U	--	0.86 U
	RPM-E-SUM-09-24-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U	--	0.92 U
09/25/2001	RPM-S-SUM-09-25-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U	--	0.94 U
	RPM-E-SUM-09-25-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U	--	0.94 U
09/26/2001	RPM-N-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	0.96 U
	RPM-S-SUM-09-26-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U	--	0.94 U
	RPM-E-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	0.96 U
	RPM-W-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	0.96 U

NOTES:

(1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit

(2) J - Indicates estimated value.

(3) ppbv - parts per billion by volume

Table 6
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration						
		RPP-CS01 -001	RPP-CS02 -001	RPP-CS03 -001	RPP-CS04 -001	RPP-CS04 -002	RPP-CS04 -003	RPP-CS04 -004
		06/21/01	06/26/01	06/26/01	06/21/01	06/25/01	06/28/2001	09/21/2001
BTEX/Styrene (mg/kg)								
Benzene	0.17	NA	NA	NA	NA	NA	NA	NA
Toluene	29	NA	NA	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)								
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.078	0.090	0.031 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.106	0.99	2.09	0.031 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.133	0.501	0.362	0.031 U
Benzo[a]anthracene	0.9	0.051	0.025 U	0.025 U	0.565	0.806	2.91	0.031 U
Benzo[b]fluoranthene	0.9	0.033	0.025 U	0.025 U	0.598	0.331	1.62	0.031 U
Benzo[k]fluoranthene	9	0.038	0.025 U	0.025 U	0.336	0.491	1.16	0.031 U
Benzo[g,h,i]perylene	NR	0.026	0.025 U	0.025 U	0.273	0.295	0.480	0.031 U
Benzo[a]pyrene	0.09	0.043	0.025 U	0.025 U	0.430	0.584	2.01	0.031 U
Chrysene	88	0.061	0.025 U	0.025 U	0.642	0.895	3.01	0.031 U
Dibenz[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.139	0.142	0.378	0.031 U
Fluoranthene	NR	0.064	0.025 U	0.025 U	0.693	1.75	2.29	0.031 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.252	0.217	0.031 U
Indeno[1,2,3-cd]pyrene	0.9	0.026	0.025 U	0.025 U	0.254	0.305	0.512	0.031 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.028	0.088	0.031 U
Phenanthrene	NR	0.029	0.025 U	0.025 U	0.295	0.981	0.329	0.031 U
Pyrene	NR	0.065	0.025 U	0.025 U	0.646	1.68	4.520	0.031 U
Total Metals Method 6020 (mg/kg)								
Beryllium	NR	0.733 J	0.707	0.844	0.678 J	NA	NA	NA
Chromium	28	19.3	19.5	21.1	21.8	NA	NA	NA
Lead	400	234	21.0	22.6	151	NA	NA	NA
SPLP Metals Method 1312/6020 (mg/L)								
Beryllium	NR	0.010 J	0.01 U	0.010 U	0.010 UJ	NA	NA	NA
Chromium	1	0.041	0.307	0.014	0.017	NA	NA	NA
Lead	0.1	0.025	0.117	0.007	0.223	NA	0.008	NA

NOTES:

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- (2) J- Indicates an estimated Value
- (3) NA- Not Analyzed
- (4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration				
		RPP-CS05 -001	RPP-CS06 -001	RPP-CS07 -001	RPP-CS07 -002	RPP-CS07 -003
		06/21/01	06/27/01	06/21/01	06/25/01	06/28/01
BTEX/Styrene (mg/kg)						
Benzene	0.17	NA	NA	NA	NA	NA
Toluene	29	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)						
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.436	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.452	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.051	1.940	0.025 U
Benzo[a]anthracene	0.9	0.032	0.025 U	0.297	3.81	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.204	1.77	0.025 U
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.187	1.750	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.098	0.579	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.199	1.760	0.025 U
Chrysene	88	0.033	0.025 U	0.327	4.280	0.025 U
Dibenz[a,h]anthracene	0.09	0.025 U	0.025 U	0.048	0.313	0.025 U
Fluoranthene	NR	0.048	0.025 U	0.394	9.820	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.555	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.115	0.652	0.025 U
Naphthalene	NR	0.025 U	0.025 U	0.025 U	0.026	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.198	5.120	0.025 U
Pyrene	NR	0.046	0.025 U	0.340	7.730	0.025 U
Total Metals Method 6020 (mg/kg)						
Beryllium	NR	0.607 J	0.658	0.288 J	NA	NA
Chromium	28	18.5	17.0	10.4	NA	NA
Lead	400	34.5	13.3	116	NA	NA
SPLP Metals Method 1312/6020 (mg/L)						
Beryllium	NR	0.010 UJ	0.010 U	0.010 UJ	NA	NA
Chromium	1	0.021	0.025	0.070	NA	NA
Lead	0.1	0.021	0.033	0.044	NA	NA

NOTES:

- (1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
- (2) J- Indicates an estimated Value
- (3) NA- Not Analyzed
- (4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration				
		RPP-CS08 -001	RPP-CS08 -002	RPP-CS08 -003	RPP-CS09 -001	RPP-CS10 -001
		06/21/01	06/25/01	06/28/01	06/27/01	06/29/01
BTEX/Styrene (mg/kg)						
Benzene	0.17	NA	NA	NA	NA	NA
Toluene	29	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)						
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.064	0.145	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.059	0.055	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	0.9	0.258	0.167	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.9	0.188	0.242	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	9	0.156	0.133	0.025 U	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.0078	0.070	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.164	0.168	0.025 U	0.025 U	0.025 U
Chrysene	88	0.295	0.204	0.025 U	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.046	0.033	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.276	0.232	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.036	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.085	0.073	0.025 U	0.025 U	0.025 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.104	0.073	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.241	0.240	0.025 U	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)						
Beryllium	NR	0.361 J	NA	NA	0.690	0.694
Chromium	28	9.46	NA	NA	18.8	17.2
Lead	400	137	NA	NA	14.6	12.5
SPLP Metals Method 1312/6020 (mg/L)						
Beryllium	NR	0.010 UJ	NA	NA	0.010 U	0.010 U
Chromium	1	0.010 U	NA	NA	0.147	0.019
Lead	0.1	0.058	NA	NA	0.012	0.007

NOTES:

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- (2) J- Indicates an estimated Value
- (3) NA- Not Analyzed
- (4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-CSH-01U	RPM-CSH-01L	RPM-CSH-02U	RPM-CSH-02L	RPM-CSH-03U	RPM-CSH-03L
		07/27/01	07/27/01	07/27/01	07/27/01	07/27/01	07/27/01
BTEX/Styrene (mg/kg)							
Benzene	0.17	0.002 U	0.002 U	0.006	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benz[a]anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benz[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benz[k]fluoranthene	9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benz[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benz[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibeno[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA
Lead	400	15.9	19.3	12.3	14.8	14.3	19.3
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA
Lead	0.1	0.01	0.022	0.022	0.005 U	0.082	0.005 U

NOTES:

(1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration						
		RPM-CSH-04U	RPM-CSH-04L	RPM-CSH-05U	RPM-CSH-05L	RPM-CSH-06U	RPM-CSH-06U -02	RPM-CSH-06L
		07/27/01	07/27/01	08/01/01	08/01/01	08/15/01	08/30/01	08/15/01
BTEX/Styrene (mg/kg)								
Benzene	0.17	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)								
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.089	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.38	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.541	0.025 U	0.025 U
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	1.17	0.025 U	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.273	0.025 U	0.025 U
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U	0.025 U	0.370	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.103	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.424	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	1.06	0.025 U	0.025 U
Dibenz[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.055	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.79	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.238	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.104	0.025 U	0.025 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	1.34	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.032	0.025 U	0.025 U	1.98	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	2.81	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)								
Beryllium	NR	NA	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA	NA
Lead	400	12.8	16.3	15.1	14.1	14.0	NA	18.7
SPLP Metals Method 1312/6020 (mg/L)								
Beryllium	NR	NA	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA	NA
Lead	0.1	0.013	0.013	0.012	0.005 U	0.006	NA	0.008

NOTES:

(1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-CSH-07U	RPM-CSH-07U -02	RPM-CSH-07L	RPM-CSH-08U	RPM-CSH-08L	RPM-CSH-09
		08/15/01	08/30/01	08/15/01	08/01/01	08/01/01	08/08/01
BTEX/Styrene (mg/kg)							
Benzene	0.17	1.94		0.002 U	0.002 U	0.002 U	0.002
Toluene	29	0.504		0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.411		0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	2.45		0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.590		0.005 U	0.005 U	0.005 U	0.005 U
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Benz[a]anthracene	0.9	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Benz[b]fluoranthene	0.9	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Benz[k]fluoranthene	9	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Benz[g,h,i]perylene	NR	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Benz[a]pyrene	0.09	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Dibeno[a,h]anthracene	0.09	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	1.8	0.073		0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U		0.025 U	0.025 U	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA		NA	NA	NA	NA
Chromium	28	NA		NA	NA	NA	NA
Lead	400	15.6		NA	16.6	16.9	19.7
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA		NA	NA	NA	NA
Chromium	1	NA		NA	NA	NA	NA
Lead	0.1	0.005 U		NA	0.005 U	0.009	0.006

NOTES:

(1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-CST-01U	RPM-CST-01L	RPM-CST-02U	RPM-CST-02L	RPM-CST-03U	RPM-CST-03L
		08/03/01	08/03/01	08/03/01	08/03/01	08/15/01	08/15/01
BTEX/Styrene (mg/kg)							
Benzene	0.17	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzof[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzof[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzof[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	1.8	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA
Lead	400	15.5	14.2	15.4	14.5	14.2	16.1
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA
Lead	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013

NOTES:

(1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration				
		RPM-CST-04U	RPM-CST-04L	RPM-CST-05		
		08/08/01	08/08/01	08/08/01		
BTEX/Styrene (mg/kg)						
Benzene	0.17	0.002 U	0.002 U	0.002 U		
Toluene	29	0.005 U	0.005 U	0.005 U		
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U		
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U		
Styrene	NR	0.005 U	0.005 U	0.005 U		
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)						
Acenaphthene	NR	0.025 U	0.025 U	0.025 U		
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U		
Anthracene	NR	0.025 U	0.025 U	0.025 U		
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U		
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U		
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U		
Benzof[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U		
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U		
Chrysene	88	0.025 U	0.025 U	0.025 U		
Dibenzof[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U		
Fluoranthene	NR	0.025 U	0.025 U	0.025 U		
Fluorene	NR	0.025 U	0.025 U	0.025 U		
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U		
Naphthalene	1.8	0.025 U	0.025 U	0.025 U		
Phenanthrene	NR	0.025 U	0.025 U	0.025 U		
Pyrene	NR	0.025 U	0.025 U	0.025 U		
Total Metals Method 6020 (mg/kg)						
Beryllium	NR	NA	NA	NA		
Chromium	28	NA	NA	NA		
Lead	400	16.3	13.3	16.2		
SPLP Metals Method 1312/6020 (mg/L)						
Beryllium	NR	NA	NA	NA		
Chromium	1	NA	NA	NA		
Lead	0.1	0.005 U	0.005 U	0.011		

NOTES:

- (1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
- (2) J- Indicates an estimated Value
- (3) NA- Not Analyzed
- (4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-N-Pipe	RPM-S-Pipe	RPM-B-Pipe			
		09/04/01	09/04/01	09/04/01			
BTEX/Styrene (mg/kg)							
Benzene	0.17	0.002 U	0.002 U	0.002 U			
Toluene	29	0.005 U	0.005 U	0.005 U			
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U			
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U			
Styrene	NR	0.005 U	0.005 U	0.005 U			
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U	0.025 U	0.025 U			
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U			
Anthracene	NR	0.025 U	0.025 U	0.025 U			
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U			
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U			
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U			
Benzof[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U			
Benzof[a]pyrene	0.09	0.025 U	0.025 U	0.025 U			
Chrysene	88	0.025 U	0.025 U	0.025 U			
Dibenzof[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U			
Fluoranthene	NR	0.025 U	0.025 U	0.025 U			
Fluorene	NR	0.025 U	0.025 U	0.025 U			
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U			
Naphthalene	1.8	0.025 U	0.025 U	0.025 U			
Phenanthrene	NR	0.025 U	0.025 U	0.025 U			
Pyrene	NR	0.025 U	0.025 U	0.025 U			
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA	NA	NA			
Chromium	28	NA	NA	NA			
Lead	400	12.9	9.87	26.4			
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA	NA	NA			
Chromium	1	NA	NA	NA			
Lead	0.1	0.005 U	0.005 U	0.005 U			

NOTES:

- (1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
- (2) J- Indicates an estimated Value
- (3) NA- Not Analyzed
- (4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

**REMEDIATION OBJECTIVES REPORT/
REMEDIAL ACTION PLAN/
REMEDIAL ACTION COMPLETION REPORT**

for

**THE ROGERS PARK SUB-SHOP
POND PARCEL
6631 NORTH KEDZIE AVENUE
CHICAGO, ILLINOIS**

Prepared for

**THE PEOPLES GAS
LIGHT and COKE COMPANY**

NOVEMBER 2001

PROJECT NO. 27194

**Burns & McDonnell
2601 West 22nd Street
Oak Brook, Illinois 60523-1229
630-990-0300**

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- Appendix B Waste Characterization Analytical Results and Waste profile Documentation
- Appendix C Ambient Air Monitoring Documentation
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- Appendix D Ambient Air Action Level Calculations
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EXECUTIVE SUMMARY

This combination Remediation Objectives Report/Remedial Action Plan/Remedial Action Completion Report (ROR/RAP/RACR) presents and describes remediation objectives as well as remedial actions that were implemented on the Rogers Park Sub-Shop Pond Parcel (site) to accomplish the remedial objectives presented herein. This site is approximately 1.8-acres in size and is located at 6631 North Kedzie Avenue in Chicago, Illinois. The ROR/RAP/RACR has been prepared by Burns & McDonnell Engineering Company (Burns & McDonnell) on behalf of The Peoples Gas Light and Coke Company (Peoples Gas) in accordance with requirements set forth in Chapter 35 of the Illinois Administrative Code (IAC), Part 740 – Site Remediation Program (SRP).

Peoples Gas currently owns a 10.2-acre parcel of land located on North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels:

- The East Parcel, approximately 3 acres in size, is a vacant lot, covered by vegetation and an unused paved entrance to the property.
- The northern and interior portion of the facility, approximately 5.4 acres in size, is referred to as the Main Parcel.
- The southwest central portion of the property, referred to as the Pond Parcel, is approximately 1.8 acres in size, and currently consists of vacant land and a parking lot.

The Pond Parcel is the subject of this ROR/RAP/RACR.

The purpose of the ROR/RAP/RACR is to present corrective measures proposed and completed to eliminate exposure to benzene, toluene, ethylbenzene constituents, polynuclear aromatic hydrocarbons (PAH) constituents, lead and chromium found in surface and subsurface soils on the Pond Parcel. Corrective measures implemented include the removal of source material and impacted surface and subsurface soil. This ROR/RAP/RACR describes soil remediation activities that were implemented and conducted from mid-June 2001 to October 2001 on the Rogers Park Sub-Shop Pond Parcel.

Site Investigation (SI) activities were performed on the Rogers Park Sub-Shop Pond Parcel in December 1999 and January 2000 and again in May and June 2001, in accordance with Illinois EPA approved procedures. The SI Report was submitted to the Illinois Environmental Protection Agency (Illinois EPA) on September 14, 2001. In late 1999 and early 2000, six (6) borings were advanced in the area and one (1) surface soil sample was collected. During the 2001 investigation, nineteen (19) soil borings and six (6) probes were advanced at various locations

around the site, each to a depth of twenty (20) feet below ground surface (bgs). Soil samples were collected from various depths within each soil boring, delivered to an analytical laboratory and analyzed for either Target Compound List (TCL) volatile organic compounds (VOCs), BTEX, styrene, TCL semivolatile organic compounds (SVOCs), PAHs, priority pollutant metals or Resource Conservation and Recovery Act (RCRA) metals, and cyanide. Certain soil samples were also analyzed for Synthetic Precipitation Leaching Procedure (SPLP) lead and SPLP chromium. Physical soil testing was also conducted. Four groundwater monitoring wells were installed in the surrounding areas and one (1) well was installed inside the Pond Parcel as part of the 2001 field activities. Groundwater samples were collected from five (5) monitoring wells in June 2001. The groundwater samples were collected and analyzed for TCL VOCs, PAHs, RCRA metals, and total cyanide.

During SI field activities, odors and visual staining were noted at the following locations: RPM-SB30, RPM-SB61, RPM-SP062, RPM-SP064, B-18, RPM-SB29A, B-15, and B-16. Source material was identified at these locations within the Pond Parcel during the SI. Shallow groundwater was encountered in nineteen (19) borings on the Pond Parcel at depths ranging from five (5) to sixteen (16) feet bgs. Subsurface investigations support the presence of shallow perched groundwater.

Exposure pathways identified for evaluation include soil ingestion, soil inhalation, soil migration to Class II groundwater and ingestion of Class II groundwater. A Tier 1 evaluation, in accordance with TACO, as specified in 35 IAC Part 742, was conducted to evaluate residential population exposures via these pathways. In general, exceedences of Tier 1 values for soil ingestion were identified in near surface soils (typically within the top foot and in limited cases, as deep as 3 feet) for benzene, a limited list of SVOC constituents, and lead. Benzene was the only VOC constituent to exceed the Tier 1 soil level for the soil inhalation exposure route. This exceedence was in the two (2) limited source areas identified as part of this investigation. Exceedences of Tier 1 values for benzene, ethylbenzene, toluene, benzo(a)anthracene, dibenzo(a,h)anthracene, and chromium for the soil migration to groundwater pathway were identified in limited soil samples. No groundwater samples exceeded the Tier 1 levels for the ingestion of Class II groundwater exposure pathway.

The TACO Tier 1 values pertaining to a residential population were used as remediation objectives for the Pond Parcel. All soil exceeding TACO Tier 1 values was removed.

In general, remedial actions included site preparation, installation of a sheet pile wall to facilitate deeper excavation, waste characterization, excavation and off site disposal of impacted soil, excavation and decontamination of former structures associated with the former gas holder, confirmation soil samples, ambient air monitoring during construction, installation and maintenance of soil erosion and sediment control, backfilling excavated areas with gravel and crushed concrete imported from off site, and demobilization. Approximately 25,020 tons of

special waste was disposed of at the CID facility in Illinois and 1,137 tons was disposed of at the Roachdale facility in Indiana.

Confirmation soil sampling was conducted in order to demonstrate that remediation objectives were met. Certain areas required additional excavation once initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed. Excavation continued until remediation objectives were met.

In accordance with 35 IAC Part 742 and Section 742.1015, Subpart J, no special conditions apply to the Rogers Park Sub-Shop Pond Parcel site. The remedial action is a final action, and a Comprehensive No Further Remediation Letter is anticipated. No institutional controls or monitoring are required.

The data presented in this ROR/RAP/RACR is accurate and complete. No further remedial activity is necessary on the Rogers Park Pond Parcel.

1.0 INTRODUCTION

In conformance with the Illinois Environmental Protection Agency (Illinois EPA) Site Remediation Program (SRP), defined in Chapter 35 of the Illinois Administrative Code (IAC), Subtitle G, Waste Disposal, Chapter I: Pollution Control Board, Part 740, The Peoples Gas Light and Coke Company (Peoples Gas) contracted Burns & McDonnell Engineering Company (Burns & McDonnell) to complete this Remediation Objectives Report/Remedial Action Plan/Remedial Action Completion Report (ROR/RAP/RACR) of the Rogers Park Sub-Shop Pond Parcel (site) in Chicago, Illinois.

Peoples Gas currently owns a 10.2-acre parcel of land located on North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels:

- The East Parcel, approximately 3 acres in size, is a vacant lot, covered by vegetation and an unused paved entrance to the property.
- The northern and interior portion of the facility, approximately 5.4 acres in size, is referred to as the Main Parcel.
- The southwest central portion of the property, referred to as the Pond Parcel, is approximately 1.8 acres in size, and currently consists of vacant land and a parking lot.

This ROR/RAP/RACR presents recognized environmental conditions and related constituents of concern (COCs) and remediation objectives for the Pond Parcel, in accordance with the Tiered Approach to Corrective Action Objectives (TACO) Tier 1 residential levels, presented in 35 IAC Part 742. TACO is the Illinois EPA's method for developing remediation objectives for contaminated soil and groundwater in Illinois. TACO consists of the following approaches:

- Exclusion of exposure routes
- Use of area background concentrations as screening tools or remediation objectives
- Three tiers for selecting remediation objectives

Also presented herein is the remedial plan designed to meet the remedial objectives and results that confirm that the remedial action achieved the established objectives. This report follows a SI Report for the Pond Parcel that was submitted to the Illinois EPA on September 14, 2001, on behalf of Peoples Gas. The SI Report included:

- *The Rogers Park Sub-Shop Pond Parcel Site Investigation Sampling Data* (Burns & McDonnell 2001a)

- *The Rogers Park Sub-Shop Pond Parcel Site Investigation Report* (SI Report) (Burns & McDonnell 2001b)

1.1 PURPOSE AND ORGANIZATION OF REPORT

The purpose of the ROR/RAP/RACR is to document remediation objectives, present an evaluation of corrective measures proposed to eliminate exposure to constituents of concern, present the corrective measures implemented to achieve the remediation objectives and demonstrate the successful completion of the remediation.

This report is comprised of the following sections:

- **Section 1.0 – Introduction**

This section describes the purpose and organization of the report, summarizing general site information, including location, environmental conditions, site characterization, and future use of the site.

- **Section 2.0 – Tier 1 Evaluation Summary**

This section summarizes the Illinois EPA Tier 1 evaluation for applicable exposure routes and presents chemicals of interest to be addressed further. The soil ingestion, soil inhalation, soil migration to groundwater, and groundwater ingestion exposure routes that were presented in detail in the *Rogers Park Sub-Shop, Pond Parcel Site Investigation Report* (Burns & McDonnell 2001b) are summarized

- **Section 3.0 – Exposure Route Evaluation**

This section identifies potential exposure routes and determines whether each route may be excluded from further evaluation based on the presence of source material and other pathway-specific requirements.

- **Section 4.0 – Remediation Objectives**

This section summarizes the final remediation objectives for the Pond Parcel, evaluates all data with respect to the remediation objectives, and sets forth required corrective actions.

- **Section 5.0 – Remedial Action**

This section summarizes the remedial action planned and implemented on the Pond Parcel.

- **Section 6.0 – Results**

This section demonstrates that removal actions achieved the site remediation objectives.

- **Section 7.0 – Special Conditions**

This section demonstrates that post remediation monitoring and/or institutional controls are not required.

- **Section 8.0 - Conclusions**

This section discusses the successful completion of the remediation by compliance with remedial objectives.

- **Section 9.0 - References**

This section presents the references used in this report.

1.2 SITE BACKGROUND

1.2.1 Site Description

The Peoples Gas Light and Coke Company (Peoples Gas) currently owns a 10.2-acre parcel of land located at 6659 North Kedzie Avenue in Chicago, Illinois referred to as the Rogers Park Sub-Shop Facility (formerly referred to as the North Shore Avenue Station). A site location map is presented as Figure 1. The North Shore Avenue Station has recently been subdivided into the following three (3) Parcels for remediation purposes:

- The East Parcel, approximately 3 acres in size, is currently a vacant lot covered by vegetation, an unused paved entrance to the site and a gravel parking area.
- The Pond Parcel, approximately 1.8 acres in size, currently consists of vegetated land and a parking lot.
- The Main Parcel, approximately 5.4 acres in size, currently consists of the operational buildings and parking areas associated with the facility.

This ROR/RAP/RACR specifically addresses the Pond Parcel. The Pond Parcel is located approximately 1,000 feet northeast of the intersection of Albion Avenue and Kedzie Avenue in Cook County, Chicago, Illinois (Figure 1). The site is rectangular in shape, approximately 240 feet by 336 feet. The legal description for the Pond Parcel is as follows:

THAT PART OF LOT 2 (EXCEPT THE WEST 66 FEET THEREOF) IN THE SUBDIVISION OF THE WEST ½ (IN AREA) OF THE SOUTHWEST FRACTIONAL ¼ LYING NORTH OF THE INDIAN BOUNDARY LINE OF SECTION 36, TOWNSHIP 41 NORTH, RANGE 13, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 2; THENCE SOUTH 89°51'56" WEST ON THE SOUTH LINE OF SAID LOT 2, 408.81 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 89°51'56" WEST ON THE SOUTH LINE OF SAID LOT 2, 330.00 FEET, MORE OR LESS, TO THE EASTERLY LINE OF KEDZIE AVENUE; THENCE NORTH 01°35'45" EAST OF THE EASTERLY LINE ON KEDZIE AVENUE, 240.00 FEET; THENCE NORTH 89°51'56" EAST, 330.00 FEET; THENCE SOUTH 01°35'45" WEST, 240.00 FEET TO THE POINT OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS

CONTAINING 79.200 SQUARE FEET OR 1.81 ACRES, MORE OR LESS.

1.2.2 Additional Background Information

Hanson Engineers Incorporated (HEI) conducted an investigation for Peoples Gas on the Rogers Park Sub-Shop and prepared a report entitled *Preliminary Site Investigation – North Shore Avenue Station Gas Storage Facility – Chicago, Illinois* dated July 1992. The objective of the

HEI investigation was to determine if there was a potential for impacts associated with the former North Shore Avenue Station. The investigation encompassed 16.2 acres owned by Peoples Gas at that time. The investigation included a review of the environmental setting, historical documents provided by Peoples Gas, Sanborn maps, a water well survey and advancement of two soil borings within the Main and Pond Parcels. The report concluded that below ground portions of the gas storage structures may be present and, if they are present, may contain precipitated tars, unless the tar was removed during demolition of the gas holder (Hanson 1992).

According to the HEI Report, in 1926, the site (Main, East and Pond Parcels) began operating as a manufactured gas facility, the North Shore Avenue Station. A 15-million cubic foot aboveground gas holder, located and removed on the west side of the property, stored manufactured and natural gas until it was dismantled and removed in 1971. (The southern half of the holder was located in the Pond Parcel, with the remainder of the holder located in the Main Parcel). The gas holder was tar sealed until mid-1956 when the sealant was changed to oil. The gas holder was temporarily out of service between April and July 1956 when the holder was repaired and the sealant changed. The interior of the gas holder was steam cleaned and placed back in service July 18, 1956. At this time, a total of 40,000 gallons of tar was removed from two 12,000 gallon buried tar tanks, the northwest holder invert and the tar dam and pump weirs. Also during the 1956 outage, additional tar totaling 152,600 gallons was removed from the base of the gas holder and unspecified locations around the gas holder. The gas holder was disconnected and purged in 1969. Most tar tanks along the holder and the gas holder itself were removed in 1971. Specifications called for the removal of the gas holder and concrete pad, the settling tank, both oil tanks and 7 of 13 tar collection tanks from the property. It is unclear, from the historical records, what happened with the other 6 tar collection tanks. The approximate locations of the former MGP structures are shown in Figure 2.

In 1999 and 2000, Roy F. Weston (Weston) conducted investigation activities in the Pond, Main and East Parcels. Field activities were performed by Weston from December 6, 1999 through January 14, 2000 and July 12 through 14, 2000. Weston advanced six (6) soil borings and collected one (1) surficial soil sample from within the Pond Parcel. The samples collected by Weston were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), priority pollutant metals, and Synthetic Precipitation Leaching Procedure (SPLP) lead and chromium. Weston noted that visual evidence of impacts were observed at soil borings B-15, B-16 and B-18 at depths less than 9.0 feet below ground surface (bgs). Weston installed four (4) groundwater monitoring wells outside of the Pond Parcel during the investigation. The groundwater samples were analyzed for TCL VOCs, TCL SVOCs and metals.

Burns & McDonnell performed additional site investigation activities on the Pond Parcel on May 1 through 4, 2001 and June 14, 15, and 22, 2001. During the Burns & McDonnell investigation,

nineteen (19) soil borings and six (6) probes were advanced at various locations within the Pond Parcel and within the right-of-way for Kedzie Avenue, directly west of the Pond Parcel, each to a depth of twenty (20) feet bgs. Soil samples were collected from various depths within each soil boring, delivered to an analytical laboratory and analyzed for TCL VOCs, benzene, toluene, ethylbenzene and xylenes (BTEX), TCL SVOCs, polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, and cyanide. Certain soil samples were also analyzed for SPLP lead and SPLP chromium. Physical soil testing was also conducted. During SI field activities, odors and visual staining were noted at the following locations: RPM-SB30, RPM-SB61, SP062, SP064, and RPM-SB29A. One (1) groundwater monitoring well was installed inside the Pond Parcel as part of the Burns & McDonnell field investigation. Groundwater samples were collected from all five (5) groundwater monitoring wells located on and around the Pond Parcel on June 22, 2001. The groundwater samples were collected and analyzed for TCL VOCs, PAHs, RCRA metals, and cyanide.

The soil boring and soil probe locations associated with the SI activities conducted by Weston and Burns & McDonnell are shown on Figure 2. The five (5) groundwater monitoring well locations are shown on Figure 3. The results of the Weston and Burns & McDonnell SI activities were incorporated into *The Rogers Park Sub-Shop Pond Parcel Site Investigation Report*, dated September 2001 (Burns & McDonnell 2001b). This SI Report was submitted to the Illinois EPA on September 14, 2001.

1.3 RECOGNIZED ENVIRONMENTAL CONDITIONS

Based on visual observations during SI field activities, source material was identified at soil boring locations RPM-SB29A, RPM-SB30, RPM-SB61, B-15, B-16, and B-18 and soil probe locations RPM-SP062 and RPM-SP064. Figure 2 shows the boring and probe locations and presents the significant findings on the Pond Parcel. The source material appeared to be confined to limited areas. One area is located in the vicinity of borings RPM-SB61 and RPM-SB30 and probes SP062 and SP064, in the center of the former gas holder. Source material was observed from 8 to 11 feet bgs. Another area, is located in the vicinity of RPM-SB29A, B-15, and B-16, in the area of the former tar tanks. Based on the results of the SI, this area of impacted material did not extend outside of the Pond Parcel, into the Kedzie Avenue right-of-way, but it did extend to the Main Parcel, north of the Pond Parcel. Further detail is presented in Sections 2 and 3 of this Pond Parcel ROR/RAP/RACR.

2.0 TIER 1 EVALUATION SUMMARY

This section summarizes the TACO Tier 1 evaluations as presented in the Pond Parcel SI Report (Burns & McDonnell, 2001b).

2.1 CURRENT AND FUTURE LAND USE

The Pond Parcel, currently vacant land and an enclosed parking area, is zoned M1-1 (restricted manufacturing). A map of zoning for the site and surrounding areas is presented in Figure 3. Surrounding properties consist of residences to the east and south, undeveloped land and the North Shore Channel to the west, and industrial and commercial businesses to the north. The Chicago City limits are located directly west of the Pond Parcel, beyond Kedzie Avenue. Note that a Dominick's grocery store to the north of the Peoples Gas Main Parcel was recently vacated. Buildings to the north of the Main Parcel (formerly owned by CP Clare), have recently been demolished.

The future use of the Pond Parcel is residential development. The area surrounding the site is currently used for residential, commercial, and business purposes. Future plans for the surrounding area are unknown, however they are not expected to change.

2.2 TIER 1 EVALUATION

As presented in the Pond Parcel SI Report (Burns & McDonnell 2001b), soil data was compared to Illinois EPA TACO Tier 1 residential objectives for soil ingestion, soil inhalation and soil migration to Class II groundwater exposure routes. Table 1 presents a summary of constituents detected in at least one sample collected, and a comparison to the Tier 1 objectives for the soil ingestion, soil inhalation and soil migration to Class II groundwater exposure routes. Measured concentrations that exceed the lowest Tier 1 objective are shaded. Constituents that were analyzed for, but not detected in any samples are not presented in the Table 1. As discussed in the Pond Parcel SI, no constituents exceeded the Tier 1 objectives for the ingestion of Class II groundwater exposure route. The following subsections summarize the Pond Parcel SI Report findings.

2.2.1 Soil Ingestion Exposure Route

Soil samples on the site were compared to TACO Tier 1 residential objectives for soil ingestion. Some of the surface soil samples contained VOCs, PAHs, total lead and arsenic at concentrations greater than their respective TACO Tier 1 residential objectives. Benzene was the only VOC that exceeded its Tier 1 screening level in six (6) samples. Benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were the SVOCs that exceeded Tier 1 levels in a limited number of samples. These constituents are PAHs. Inorganic constituents that exceeded Tier 1 levels were lead and arsenic. Lead exceeded the Tier 1 level in six (6)samples. As presented in the Pond Parcel SI Report (Burns & McDonnell 2001b), the statistical 95 percent upper confidence limit

(UCL) for arsenic in site soil was calculated to be 9.007 mg/kg, which is below the TACO metropolitan statistical area concentration (13 mg/kg) for arsenic (the remediation objective). Therefore, arsenic on the site was eliminated from further evaluation.

2.2.2 Soil Inhalation Exposure Route

The Tier 1 inhalation exposure route was evaluated using all soil samples that were collected during the SI. Of sixty-one (61) samples evaluated, benzene exceeded the Tier 1 level for inhalation in eight (8) samples at depths less than 8 feet bgs.

2.2.3 Soil Migration to Groundwater Exposure Route

The Tier 1 soil migration to groundwater exposure route was evaluated using all soil samples collected from above the water table. Based on a review of the data and the soil boring logs, the presence of a continuous shallow aquifer has not been established on the Pond Parcel. Weston reported difficulty in collecting groundwater samples from the two monitoring wells (MW03 and MW04) due to slow recharge. Also, Weston had difficulty obtaining static water level readings, due to the slow rate of recharge. However, even if the groundwater was continuous and not the result of perched conditions, the unconfined water beneath the site would not meet the definition of a Class I aquifer, as defined in 35 IAC, Subtitle F, Chapter I, Part 620 – Groundwater Quality, Section 210. Grain size testing performed on the silty clay and a soil permeability test support this conclusion. At best, the water would be considered a Class II source of groundwater, as defined in the regulations. Therefore, as a conservative approach, soil analytical results from all samples collected from above the water table were compared to Tier 1 levels pertaining to Class II groundwater.

Toxicity criteria in Appendix B, Table A of TACO for metals and cyanide are only applicable to TCLP or SPLP data, and analyses were for total concentrations for many of the constituents/samples. Therefore, pH dependent Tier 1 values were used for metals (Appendix B, Table D of TACO), unless SPLP data was obtained. Measured values for pH ranged from 7.6 to 8.1. The Illinois EPA Table D in Appendix B of TACO, where values are presented for pHs up to 9.0 was used, unless SPLP data was available. No pH dependent Tier 1 value was available for chromium in Class II groundwater, so the Class I groundwater value was selected for chromium.

No pH dependent Tier 1 value is available for lead. The background concentrations for lead, presented for counties within metropolitan statistical areas (MSA) in Appendix A, Table G of TACO, is 36 mg/kg. The site is currently zoned for restricted manufacturing use. Because the future use of the site is for residential development, the published MSA background concentration will not be used as the Tier 1 value for this pathway. However, several of the soil samples were analyzed for SPLP lead. Therefore, lead was evaluated against the corresponding toxicity criteria in Table A, Appendix B of TACO, and not the published background value in Appendix A, Table G of TACO.

Of the sixty-one (61) samples evaluated, benzene, ethylbenzene, and toluene were the only VOCs that exceeded Tier 1 levels in a limited number of samples less than 14 feet bgs.

Benzo(a)anthracene and dibenzo(a,h)anthracene were the SVOCs that exceeded Tier 1 levels.

Chromium was the only metal that exceeded Tier 1 level in four (4) shallow soil samples collected.

2.2.4 Groundwater Ingestion Exposure Route

Constituent concentrations in groundwater were evaluated for the groundwater ingestion exposure route using TACO Class II levels. Of the five (5) groundwater samples collected and analyzed in June 2001, no samples exceeded the Class II levels for the Class II groundwater ingestion exposure route.

3.0 EXPOSURE ROUTE EVALUATION

Remediation objectives do not need to be determined for a specific exposure route if it can be demonstrated that the exposure route does not exist based on criteria established in Subpart C of TACO (Illinois EPA 2001). The extent of contamination of COCs must be characterized and source material must not exist in order to exclude an exposure route. In addition, pathway-specific requirements must be met for each exposure route.

3.1 SOURCE MATERIAL EVALUATION

During SI field activities, odors and visual staining were noted in borings RPM-SB29A, RPM-SB30, RPM-SB61, B-15, B-16, and B-18 within the Pond Parcel property boundary. Impacted material was observed at 2.0 to 12.0 foot depth interval at boring RPM-SB29A. At boring RPM-SB30, impacted material was observed at 2.0 to 9.0 feet bgs. Tar was observed at borings B-15, B-16, and B-18 at depths less than 9.0 feet bgs. At boring RPM-SB61, visual staining and strong odors were observed from 3 to 11 feet bgs with PID readings ranging from 0.3 parts per million (ppm) to 367 ppm. During SI field activities, six (6) probes were advanced for visual observations only (RPM-SP062, RPM-SP063, RPM-SP064, RPM-SP065, RPM-SP066, RPM-SP069). Probes RPM-SP062 and RPM-SP064 were described as containing odors and staining at seven (7) to eleven (11) feet bgs. Probes RPM-SP063, RPM-SP065, RPM-SP066, and SP069 were described as containing a slight odor to no odor. This information was used to create the significant findings map (Figure 2).

Figure 2 shows two areas impacted by source material on the Pond Parcel. One area, is located in the vicinity of borings RPM-SB61, RPM-SB30, and B-18 and probes SP062 and SP064 and contains source material from 8.0 to 11.0 feet bgs, based on visual observation. Another area, is located in the vicinity of RPM-SB29A, B-15, and B-16 and contains source material from 7.0 to 8.0 feet bgs. The area of source material was suspected of extending outside of the Pond Parcel, into the Main Parcel, but the investigation indicated that it did not extend to the west, into the right-of-way to Kedzie Avenue. Because the existence of source material was confirmed, further evaluation was necessary.

The removal of source material is discussed in detail in Section 5.4 of this report.

3.2 SOIL INGESTION EXPOSURE ROUTE

As discussed in Section 2.2.1, soil data was compared to Illinois EPA TACO Tier 1 residential objectives for soil ingestion exposure route. Tier 1 levels were exceeded for benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and lead. Therefore, the soil ingestion exposure route will not be eliminated from further evaluation.

3.3 SOIL INHALATION EXPOSURE ROUTE

Tier 1 inhalation levels pertaining to the residential population were exceeded for benzene. Therefore, the soil inhalation exposure route will not be eliminated from further evaluation.

3.4 SOIL MIGRATION TO GROUNDWATER EXPOSURE ROUTE

As discussed in Section 2.2.3, Tier 1 screening levels were evaluated for soil migration to groundwater using Class II screening levels. Tier 1 levels were exceeded for benzene, ethylbenzene, toluene, benzo(a)anthracene, dibenzo(a,h)anthracene, and chromium. Therefore, the soil migration to groundwater exposure route will not be eliminated from further evaluation.

3.5 GROUNDWATER INGESTION EXPOSURE ROUTE

Of the five (5) groundwater samples collected for this SI, no samples exceeded the Tier 1 objectives for ingestion of Class II groundwater. No further evaluation is necessary.

4.0 REMEDIATION OBJECTIVES

This section identifies remediation objectives for the Rogers Park Sub-Shop Pond Parcel site. Site remediation objectives were developed using TACO Tier 1 evaluations summarized in Sections 2.0 and 3.0, and as presented in Table 1. Remediation objectives only need to be established for those constituents that exceeded the residential Tier 1 levels. Also, as required by regulation, source material must be removed. A summary of the remediation objectives is presented in Table 2.

4.1 REMEDIATION OBJECTIVES

The following remediation objectives, pertaining to soil on the Rogers Park Sub-Shop Pond Parcel site have been established:

Remove source material, and remove soil at varying depths that exceed TACO Tier 1 residential remediation objectives. Specifically, soil must not exceed the following criteria:

- Benzene.....0.17 mg/kg
- Ethylbenzene.....19 mg/kg
- Toluene.....29 mg/kg
- Benzo(a)anthracene.....0.9 mg/kg
- Benzo(b)fluoranthene.....0.9 mg/kg
- Benzo(k)fluoranthene.....9 mg/kg
- Benzo(a)pyrene.....0.09 mg/kg
- Chrysene.....88 mg/kg
- Dibenzo(a,h)anthracene.....0.09 mg/kg
- Indeno(1,2,3-cd)pyrene.....0.9 mg/kg
- Total lead.....400 mg/kg
- SPLP lead.....0.1 mg/L
- Total chromium.....28 mg/kg
- SPLP chromium.....1.0 mg/L

These remediation objectives are intended to prevent exposure to source material and to benzene, ethylbenzene, toluene, several PAHs, lead, and chromium present in concentrations above remediation objectives pertaining to a residential population, and to obtain a Comprehensive No Further Remediation Letter, as identified in Subpart F of 35 IAC Part 740, based on a residential property classification. Note that while SPLP lead and SPLP chromium results were well below the Tier 1 level pertaining to soil migration to groundwater, not all samples were analyzed for SPLP lead and chromium during the investigation. Therefore, remediation objectives will include SPLP lead and SPLP chromium.

5.0 REMEDIAL ACTION

This section identifies remedial actions proposed and implemented on the Pond Parcel to achieve the remediation objectives established in Section 4.0 of this ROR/RAP/RACR. The remedy for the site is to excavate and dispose of impacted soil.

Remedial action activities consist of the following main components:

- Site preparation;
- Waste characterization;
- Air monitoring during remediation;
- Excavation, stockpiling and off site disposal of impacted surface soils, managed as special waste, and management of decontamination water;
- Confirmation soil samples;
- Management of potential stormwater runoff/runoff, and soil erosion and sediment control; and
- Demobilization and site restoration.

Remedial activities on the Pond Parcel took place between June and October 2001. Photographs documenting field activities are presented in Appendix A.

5.1 SITE PREPARATION

Site preparation activities began in May 2001, as part of ongoing remediation activities in adjacent Parcels. Fabric was attached to the existing fence along the north, west and south sides of the Pond and South Parcels in order to help control potential off site dust migration during excavation. The fabric was placed in a manner that allowed it to act as a silt fence as well. Fabric, 8 feet in length, was attached at the top and middle of the fence and extended to the ground surface.

Buried utility lines were identified by exposing them during hand excavation activities and they were left undisturbed. Previously unidentified buried utilities/structures in surface soil were encountered during remediation work, identified as abandoned lines, and removed as necessary. Utilities were deemed abandoned because they were no longer in service.

The gas holder and tar tank excavation areas, based on the depth of excavation, were laid out prior to excavation activities. Additionally, the confirmation sampling grids were identified and marked prior to excavation.

A sheet pile wall earth retention system was installed in July 2001 along a portion of the western boundary of the Pond Parcel. The sheet pile wall was 80 feet long by 25 feet deep and its location is shown on Figures 4, 5, and 6. Excavation depths up to 12 feet were planned in the area along Kedzie Avenue, and Chicago Department of Transportation (CDOT) requested that the sidewalk and the right-of-

way not be disturbed during excavation activities. Since side sloping was not allowed, the sheet pile wall was installed before excavation.

The CDOT sheet pile wall approval required damage control monitoring. The damage control monitoring consisted of twenty (20) settlement points and installation of an inclinometer, which measured the movement of the ground outside of the sheet pile wall. The twenty (20) settlement points were initially measured on July 20, 2001, prior to installation of the sheet pile wall. The settlement points were measured weekly until September 24, 2001. The inclinometer was installed on July 26, before any excavation occurred, and weekly measurements were collected from July 27 through September 21, 2001. The data collected from the weekly monitoring is retained on file at CDOT and Burns & McDonnell. Due to the collected data and completion of backfill on the site, CDOT requires future measurements to be collected at the end of October and November 2001.

The sewer line along Kedzie Avenue from the outfall on North Shore Avenue to Manhole 1122 was inspected in July 2001 in order to evaluate the condition of the line prior to installation of the sheet pile wall. The sewer inspection was requested by CDOT as part of the damage control monitoring requirements for installation of the sheet pile wall earth retention system. The sewer line was inspected again in October 2001, to evaluate the condition of the line after sheet pile wall installation, excavation, and backfill activities. No damage was noted.

5.2 WASTE CHARACTERIZATION

Prior to excavation activities, waste characterization samples were collected for analyses. Composite soil sample RPS-WC1 was required by Waste Management to dispose of the material in the CID landfill, in Chicago, Illinois. The sample was collected on April 23, 2001 by Burns & McDonnell and submitted to Test America Inc. in Bartlett, Illinois under proper chain-of-custody. Sample RPS-WC1 was analyzed for pH, TCLP metals, TCLP pyridine, TCLP hexachlorobenzene, polychlorinated biphenols (PCBs), flashpoint, reactive sulfide, paint filter, and LN Parameters (chemical oxygen demand, fats, oil and grease, ammonia nitrogen, pH, total cyanide, and oxidizing agents).

On May 2, 2001, Burns & McDonnell collected a grab soil sample (RPM-SB61-005) from the Rogers Park Pond Parcel and submitted it to STAT Analysis Corporation (STAT) in Chicago, Illinois under proper chain-of-custody. Analyses for sample RPM-SB61-005 were required by Heritage Environmental Services, LLC (Heritage); to dispose of the source material in the Roachdale Subtitle C Landfill, in Roachdale, Indiana. Sample RPM-SB61-005 was collected in an area containing source material. The sample was analyzed for TCLP VOCs, TCLP SVOCs, TCLP Metals, flashpoint, pH, paint filter, reactive sulfide, total solids, ash content, total cyanide, total phenol, extractable organic halides (EOX) and water reactivity. Analytical results of the waste characterization samples (RPS-WC1 and RPM-SB61-005) are presented in Appendix B.

5.3 AIR MONITORING

Air monitoring for BTEX and PAHs (as dust) was performed in an effort to ensure that residents of the surrounding community and onsite workers were not exposed to airborne compounds that may be emitted during remedial activities. Air monitoring was conducted in accordance with the procedures described below and documentation sheets are included in Appendix C.

5.3.1 Real-Time Air Monitoring

Air monitoring was performed around the site perimeter during management of impacted media. PAH constituents, as dust, were monitored using a MiniRAM, a hand held dust collection device. A MiniRAE 2000 Photo Ionization Detector (PID) was used to determine real-time organic vapor concentrations. Organic vapor and dust monitoring were done regularly (approximately every hour) during the workday along the fence line. Readings were taken mainly in the north, south, east, and west portions of the site in a rotating fashion. Appendix F contains the corresponding equipment calibration sheets, presents real-time air monitoring results during remedial activities, and corrective action sheets.

The action level for organic vapor of 0.2 parts per million (ppm) was rarely exceeded. On July 26, 2001, PID readings exceeded the action limit of 0.2 ppm inside the gas holder excavation at approximately 12 feet bgs. Excavation was slowed and respirators were required when working in the gas holder excavation area. On August 2 and 3, 2001, PID readings exceeded 0.2 ppm around the stockpile near the gas holder excavation. Excavation was slowed, respirators were required in the gas holder excavation area, and the waste was covered with plastic sheeting. On August 6, 7, and 8, 2001, PID readings exceeded 0.2 ppm around the waste near the gas holder excavation, and a Draeger benzene tube was used to measure ambient air benzene levels. All ambient benzene level results from the Draeger tubes were 0 ppm.

The action level for dust on the site was $150 \mu\text{g}/\text{m}^3$ for the 24 hour average concentration of particulate matter less than 10 micrometers, as specified in 40 CFR 50.6. Dust levels exceeded the action level on August 6, 2001. A water truck was used to spray the area north of the Pond Parcel in order to minimize the dust.

Monitoring of onsite worker health and safety is addressed in a separate Site Health and Safety Plan. The Site Health and Safety Plan (HASP) was written specifically to address the chemical and physical hazards specific to the site (Burns & McDonnell 2001c). All persons working on the site were required to read, sign and conform to the requirements of the health and safety plan.

5.3.2 Ambient Air Monitoring

Ambient air monitoring was performed using Summa® canisters, which were analyzed for BTEX using USEPA Method TO-14A. The canisters were placed at north, south, east and west stations to provide representative results of the site (Figure 5). The canisters were located at a height of 8 to 9 feet above the ground surface. The canisters were not located in the direct vicinity of any permanent solid obstructions. Pre-excavation sampling was conducted from July 20 through July 24, 2001. Excavation air sampling

was conducted from July 25 through September 26, 2001. The analytical results and the meteorological data associated with the pre-excavation, and excavation air samples are shown on Tables 3, 4 and 5.

The Summa® canisters were analyzed for BTEX in a three-day cycle as shown below:

<u>Work Day</u>	<u>Locations Sampled</u>
1	4 (All sampling stations)
2	1 (Collected from the downwind station)
3	1 (Collected from the downwind station)
4...n	Repeat as indicated for Work Days 1 through 3

All of the canisters were analyzed every third monitoring day. Only the prevailing downwind air samples were analyzed on the other two days of each cycle. The Summa® canisters were placed into operation at approximately 6:30 AM, before work commenced, and operated until all site work ceased for the day. None of the action levels for benzene, toluene or ethylbenzene (39, 2,211 or 4,883 parts per billion by volume (ppbv), respectively) were exceeded. Appendix D contains the action level calculations. An allowable concentration on the receptor was calculated and then allowable vapor concentrations were calculated.

A portable meteorological station was set up onsite to monitor barometric pressure, wind speed and wind direction. The meteorological data was logged using an electronic data logger. Table 3 contains the meteorological data collected during excavation activities. The prevailing wind direction was determined by the meteorological station and used to designate the predominant downwind air monitoring location(s) for each air-sampling event.

As discussed above, PAH (as dust) monitoring was performed on a continuous basis at each stationary monitoring location using a hand held dust collection device (MiniRAM).

5.4 EXCAVATION

Excavation of the impacted soils was conducted at specified depths across the site. Based on the SI findings, excavation on the Pond Parcel was planned from depths of six (6) inches to more than ten (10) feet. Two areas, the former tar tank and the former gas holder, were planned to be excavated to depths greater than 10 feet bgs. Figure 4 details the excavation layout plan.

During excavation activities on the Pond Parcel, historical structures were uncovered. Some areas required deeper excavation than anticipated in order to achieve the remedial objectives based on the confirmation samples that were collected during excavation (see Figure 5) and in order to remove historical structures. All excavation activities on the Pond Parcel fall into one of the following categories: gas holder excavation, tar tank excavation, tank invert and valve/wier box excavation, miscellaneous steel tar pipe excavation, and surface soil excavation. As presented above, air monitoring was conducted during all excavation activities.

5.4.1 Gas Holder Excavation

Based on the findings in the SI, excavation of the gas holder began in July 2001. Coal tar saturated material was observed in the gas holder excavation at depths greater than three (3) feet bgs. Excavation was performed to a depth of approximately 12 feet bgs, until visually clean native clay was observed at the bottom of the excavation. The top three (3) feet of soil excavated from the gas holder area was considered special waste and was often collected and temporarily stockpiled before being loaded into end-dump trailers and transported to the Waste Management CID landfill in Chicago, Illinois. Trucking occurred between 6 am and 3 pm. Some pre-loading occurred in the afternoon for transport the following day. Some of the heavily impacted material excavated at depths greater than six (6) feet bgs was considered to be a different waste stream than the material being transported to CID. This waste was segregated and loaded into lined end-dump trailers and transported to the Heritage Roachdale Sub-Title C landfill in Roachdale, Indiana. It was disposed of as non-hazardous special waste, although it was manifested as hazardous waste in Illinois. Each manifest clearly stated the following in Box J:

This consignment is not hazardous waste in the State of Indiana per the Indiana Department of Environmental Management correspondence dated January 21, 2001 to Regina Mahoney from Leah Fouty and the American Battery Recyclers, Inc. et al vs. USEPA (April 21, 2000)

5.4.2 Tar Tank Excavation

Based on the findings in the SI, excavation of the tar tank area began in July 2001. Prior to excavation, a sheet pile earth retention system was installed to prevent damage to Kedzie Avenue located directly west of the tar tank excavation area. Coal tar saturated material was observed in the tar tank excavation area at depths greater than three (3) feet bgs. Excavation was performed to a depth of approximately 12 feet bgs, until visually clean native clay was observed at the bottom of the excavation. The top three (3) feet of soil excavated from the tar tank area was managed as special waste and the more heavily impacted soil, generally excavated from the deeper area, was manifested as hazardous waste but disposed of in the Heritage Roachdale Subtitle C facility in Indiana as special waste as discussed in Section 5.4.1.

5.4.3 Surface Soil Excavation

Based on findings in the SI, the surface soil excavation in the southern portion of the Pond Parcel began in June 2001. The surface soil excavation was designed to remove soil of six (6) inches to three (3) feet bgs from designated areas as shown in Figures 4 and 5. Based on confirmation composite samples discussed in Sections 5.6 and 6.1.1, some areas required additional excavation. Therefore, the southern portion of the Pond Parcel was excavated from six (6) inches to more than ten (10) feet bgs. The soil was managed as special waste and was disposed of at the CID facility.

5.4.4 Valve/Wier Box Excavation

During the surface soil excavation, the concrete holder foundation was discovered. Three (3) holder invert valve/wier boxes were uncovered along the concrete holder foundation. Only one (1) valve/wier box was located on the Pond Parcel. The structures were at least 20 feet wide by 30 feet long by 12 feet deep and housed abandoned steel and cast iron piping and valves that were 4 to 5 feet in diameter. The

boxes were located in the northwest, northeast, and southeast portion of the foundation. Excavation of the holder invert valve/wier boxes began in September 2001. Oily water and sludge were present in the valve/wier boxes. The liquid was collected, managed, transported and disposed of as hazardous waste at either Waste Management CID Bioplant in Calumet City, Illinois or Beaver Oil Company, Inc. in Hodgkins, Illinois. After removal of liquids, the valve/wier boxes were fully excavated to a depth of 12 feet bgs. A 24-inch cast iron outlet pipe was removed at a depth of 5 feet bgs around the southeast valve/wier box. The piping in the valve/wier boxes was collected, decontaminated, and transported to United Scrap in Cicero, Illinois. The sludge and soil within and surrounding the boxes was collected into roll-off boxes, manifested as hazardous waste, and disposed of in the Subtitle C facility in Indiana as special waste.

Excavation around the concrete gas holder foundation began in September 2001, because the soil was visually impacted. The section between the northwest and southeast valve/wier boxes was excavated to 4 feet bgs and the concrete was then broken up. The section between the southeast and northeast valve/wier boxes was excavated to 5 feet bgs and the concrete holder foundation was left in tact. All visually impacted material around the foundation was excavated and properly disposed of as special waste.

5.4.5 Miscellaneous Steel Tar Pipe Excavation

During excavation of the tar tank area, a 2-inch steel tar pipe was discovered (as shown on Figure 6). The pipe extended approximately 150 feet south from the tar tank excavation then turned at a right angle and extended approximately 300 feet west. Excavation of the pipe began in September 2001. The pipe was excavated to 3 feet bgs and removed. The soil surrounding the pipe was disposed of as special waste.

Figure 6 shows the final excavation map. Construction activities were documented. Daily reports of excavation activities, activity logs and other pertinent data were generated and maintained. Appendix E contains a copy of the daily reports.

5.5 SOIL AND WATER REMOVAL

A total of 25,020 tons of special waste was disposed of in the CID facility, approximately 1,137 tons of waste was disposed of in the Subtitle C facility in Indiana as special waste, and 97,037 gallons of wastewater was removed from the site, manifested and transported and disposed of at either CID or Beaver Oil. The waste totals are a combination of the Pond and Main Parcels, because the source material straddled the boundaries between the Parcels and all excavation work was done concurrently. Appendix F contains the manifest logs for special waste, hazardous waste, and hazardous liquid. Remedial action manifests and weight tickets are included in a separately bound book, entitled *Remedial Action Manifests, Weight Tickets, and Summary of Disposal Quantities* (Burns & McDonnell 2001d).

5.5.1 Soil Manifested as Special Waste

The majority of the soil collected from both the Pond and Main Parcels was characterized as special waste, with the exception of some material excavated deeper than 3 feet bgs with visible contamination in the vicinity of source material encountered in the tar tank and gas holder excavation areas, and the

valve/wier boxes. Special waste soil was loaded into end-dump trucks, manifested as special waste, and transported to Waste Management's CID facility in Chicago, Illinois. The total volume of special waste and debris removed from the area was approximately 25,020 tons.

5.5.2 Soil Manifested as Hazardous Waste in Illinois

Some material removed deeper than 3 feet bgs in the tar tank area, gas holder area, and valve/wier box excavation areas was characterized as RCRA hazardous waste in the State of Illinois based on the waste characterization sample RPM-SP61-005. This sample had a TCLP benzene concentration greater than the regulatory level of 0.5 mg/L. The material was loaded into lined end-dump trucks or roll-off boxes, manifested as hazardous waste, and transported to the Heritage Roachdale Subtitle-C Landfill in Roachdale, Indiana. Approximately 1,137 tons of this material was disposed of as special waste. Each manifest clearly stated the following in Box J:

This consignment is not hazardous waste in the State of Indiana per the Indiana Department of Environmental Management correspondence dated January 21, 2001 to Regina Mahoney from Leah Fouty and the American Battery Recyclers, Inc. et al vs. USEPA (April 21, 2000).

5.5.3 Waste Water

As needed to facilitate excavation activities, stormwater runoff/runoff was pumped from the tar tank and gas holder excavation areas. Water pumped from these areas was temporarily stored in an onsite frac tank and then transported offsite to the Waste Management CID Bioplant in Calumet City, Illinois or Beaver Oil Company, Inc. in Hodgkins, Illinois for treatment. During the excavation of the three valve/wier boxes, oily water was present inside of the boxes. The water contained inside of the valve/wier boxes was removed via vacuum truck and transported offsite to the above mentioned facilities. Water collected from the tar tank excavation, gas holder excavation, and the valve/wier boxes was not sampled during excavation activities, but was conservatively assumed to be hazardous for disposal purposes. One sludge sample (RPM-WCC) was collected from the southeast valve/wier box and the results were used to generate Beaver Oil Company Waste Survey Forms. Appendix E contains the Chain of Custody for sample RPM-WCC and the water survey forms from Beaver Oil Company. A total of 97,037 gallons was collected from the frac tank and valve/wier boxes.

5.5.4 Additional Waste

During excavation, piping and valves in the valve/wier boxes were removed. The piping and valves were made of steel and cast iron and were decontaminated and transported off site to United Scrap in Cicero, Illinois. Appendix B contains the United Scrap Drivers Ticket.

During excavation of the tar tank and gas holder areas and during decontamination of the valve/wier boxes, the workers wore personal protective equipment (PPE). The PPE and debris (paper/plastic) was stored in 55-gallon drums. The generated waste was transported offsite to the Michigan Disposal Waste Treatment Plant in Belleville, MI in two (2) 55-gallon drums. Appendix B contains the waste characterization report submitted to the Michigan Disposal Waste Treatment Plant.

5.6 CONFIRMATION SOIL SAMPLES

Confirmation soil sampling was performed in order to verify that soil exceeding TACO Tier 1 residential screening levels was removed. Confirmation samples were analyzed for either BTEX, styrene, PAHs (8270 SIM), total and SPLP beryllium, total and SPLP chromium, and total and SPLP lead. The results were compared to Tier 1 residential screening levels (remediation objectives specified in Section 4.1). If measured concentrations exceeded the remediation objectives, the areas from which they were collected were excavated further. Once this was complete, another confirmation sample was taken. If measured concentrations exceeded the Tier 1 remediation objectives in the tar tank or gas holder excavations, the locations were excavated an additional 6 inches, prior to collection of another grab sample. This process continued until the remediation objectives were achieved. Confirmation sampling locations are detailed on Figure 5.

Confirmation composite samples were collected in the southern portion of the Pond Parcel. This area was divided into 1/8 acre plots from which composite confirmation samples were collected. Based on the size of the site, ten (10) areas were delineated. The initial composite samples were analyzed for PAHs, total and SPLP beryllium, total and SPLP chromium, and total and SPLP lead. Certain areas required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed for PAHs, with the exception of one sample that was analyzed for PAHs and SPLP lead. Table 6 presents the results of confirmation sampling.

Confirmation grab samples were collected in the tar tank and gas holder excavations. In the tar tank excavation, the side walls were sampled at four (4) locations. At each location, upper and lower samples were collected at depths of approximately 3.0 feet bgs and 8.0 feet bgs, respectively. One (1) grab sample was collected in the bottom center of the excavation at a depth of approximately 12 feet bgs.

In the gas holder excavation, the side walls were sampled at eight (8) locations. At each location, upper and lower samples were collected at depths of approximately 3.0 feet bgs and 8.0 feet bgs, respectively. One (1) grab sample was collected in the bottom center of the excavation at a depth of approximately 12 feet bgs. The initial grab samples were analyzed for BTEX, styrene, PAHs, total and SPLP lead. Certain areas (RPM-CSH-06 and RPM-CSH-07) required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed for BTEX, styrene, and PAHs (See Table 6).

Three (3) confirmation grab samples were collected around the southeast valve/wier box 24-inch cast iron pipe outlet, as shown on Figure 6. Samples RPM-N-Pipe, RPM-S-Pipe, and RPM-B-Pipe were collected at depths of approximately 2 feet bgs, 2 feet bgs, and 5 feet bgs, respectively. The initial grab samples were analyzed for BTEX, styrene, PAHs, total and SPLP lead.

Confirmation samples were sent to STAT. Analytical data is included in Appendix G.

5.7 POTENTIAL STORMWATER RUNON/RUNOFF AND SOIL EROSION AND SEDIMENT CONTROL

Erosion and sediment controls were implemented during construction activities including:

- Sequenced construction;
- Maintenance of erosion and sediment controls (silt fences);
- Installation of a sheet pile wall earth retention system;
- Construction of berms around the excavations;
- Excavated soil from the staging area was loaded onto trucks as quickly as possible; and
- Staged soils that were left on site overnight were compacted and covered with tarps.

Routine inspections of erosion and sediment control features were conducted on a daily basis, after each rainfall and during periods of extended rainfall. Repairs, if necessary, were made immediately.

5.8 BACKFILLING

Backfilling was used on the Pond Parcel in order to fill in the excavated holes. Backfilling to grade occurred in the area of the sheet pile wall. The site was not fully restored due to the future plans to sell and then develop the property. Figure 6 shows a summary of the completed backfilling.

5.8.1 Gas Holder Excavation

Backfilling of the gas holder began in August 2001. The gas holder was backfilled with 3-inch crushed concrete up to a depth of approximately 3 feet bgs. A fabric liner was then placed on top of the crushed concrete and CA-6 (crushed concrete) was placed above the stone to a depth of approximately 5-feet bgs. Once the fill was in place it was leveled.

5.8.2 Tar Tank Excavation

The tar tank excavation was backfilled with 3-inch crushed concrete to a depth of approximately 6 feet bgs. The CA-6 stone was placed at a depth of 6 inches above the ground surface in the western half of the excavation in order to provide support for the sheet piling which was left in place. However, in the eastern half of the excavation, only 3 feet of CA-6 stone was placed above the fabric. Once the fill was in place it was leveled.

5.8.3 Valve/Wier Box Excavation

Backfilling of the valve/wier boxes began in August 2001, including the one (1) valve/wier box contained on the Pond Parcel. Crushed concrete from the gas holder wall was placed at a depth of approximately 2 feet, on top of which was placed 5 feet of 3-inch crushed concrete. Five feet of CA-6 stone was then used to completely fill the valve/wier boxes. The northwest and northeast valve/wier boxes were covered with asphalt, because they are located directly in the company parking lot.

5.8.4 Miscellaneous Steel Tar Pipe Excavation

The 2-inch steel tar pipe excavation backfilling began in September 2001. Similar to the valve/wier boxes, the backfilling consisted of a 2 foot bottom layer of crushed concrete from the gas holder wall, a

middle 5 foot layer of 3-inch crushed concrete covered with fabric, and a top 5 foot layer of CA-6. This excavation was also completely filled.

5.9 DEMOBILIZATION AND SITE RESTORATION

After completion of soil removal activities, the following cleanup and site restoration activities were performed:

- Decontamination of potentially impacted equipment; and
- Removal of temporary construction trailer.

6.0 RESULTS

This section presents all sampling results, which demonstrate that all remedial objectives have been met.

6.1 CONFIRMATION SAMPLING

Confirmation sampling was done in accordance with the remedial objectives described in Section 4.0 of this report in order to confirm that the objectives were met. Table 6 summarizes the confirmation sampling results and the site-specific remedial objectives. Certain areas required additional excavation after initial confirmation sample results were obtained. These areas were excavated further and additional confirmation samples were collected and analyzed. Excavation continued until remediation objectives were met. Figure 6 is an as-built excavation map, showing the areas of confirmation sampling. Appendix G contains the soil analytical data.

6.1.1 Composite Samples

The majority of the first round of composite confirmation samples were below the site-specific remediation objectives with the exception of areas RPP-CS02, RPP-CS04, RPP-CS07, and RPP-CS08.

- Confirmation sample RPP-CS02-001 barely exceeded the SPLP lead remediation objective of 0.1 mg/L at a concentration of 0.117 mg/L. The SPLP lead detection is suspect, because the total lead concentration is significantly lower than typical samples that exceed SPLP lead. Also, the sample was collected in the area of an abandoned steel pipe that was subsequently excavated and removed. Therefore, further excavation and removal in the area occurred, and the result is no longer valid.
- Area RPP-CS04 required additional sampling due to exceedences of SPLP lead, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Four (4) confirmation samples were collected in area RPP-CS04 until the results were below the remedial objectives. Remedial objectives were met by sample RPP-CS04-004 that was collected at a depth approximately 10 feet bgs.
- Area RPP-CS07 required additional sampling due to exceedences of benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Three (3) confirmation samples were collected in area RPP-CS07 until the results were below the remedial objectives. Remedial objectives were met by sample RPP-CS07-003 that was collected at a depth of approximately 1.5 feet bgs.
- Area RPP-CS08 required additional sampling due to exceedences of benzo(a)pyrene. Three (3) confirmation samples were collected in area RPP-CS08 until the results were below the remedial

objectives. Remedial objectives were met by sample RPP-CS08-003 that was collected at a depth of approximately 3 feet bgs.

6.1.2 Grab Samples

All confirmation grab samples collected in the tar tank excavation, gas holder excavation, and southeast valve/wier box 24-inch cast iron pipe outlet excavation were below the residential remedial objectives, with the exception of two sample locations located inside of the gas holder excavation. Sample RPM-CSH-06U exceeded benzo(a)anthracene and benzo(a)pyrene. Sample RPM-CSH-07U exceeded benzene only. These two (2) upper sample locations are located along the north side of the gas holder excavation and were excavated an additional 6 inches and resampled. The second round of samples (RPM-CSH-06U-02 and RPM-CSH-07U-02) collected from the two areas were below the remedial objectives.

6.2 AIR SAMPLING

Ambient air monitoring results confirm that removal activities did not present adverse health effects for nearby residents. Analytical results show that the allowable concentration for BTEX constituents were not exceeded during handling of impacted material. Air monitoring results are presented in Appendix G.

7.0 SPECIAL CONDITIONS

In accordance with 35 IAC Part 742 and Section 742.1015, Subpart J, no special conditions apply to the Rogers Park Sub-Shop Pond Parcel site. The remedial action is a final action, and a Comprehensive No Further Remediation Letter is anticipated. No institutional controls or monitoring are required.

8.0 CONCLUSIONS

The remedial objectives for the Rogers Park Sub-Shop Pond Parcel site in Section 4.0 were met as a result of the excavation activities described in Section 5.0. All soil that exceeded remediation objectives was removed from the Pond Parcel. Remaining soil was confirmed to meet remediation objectives. No special conditions are required to be implemented on the site.

The data presented within this ROR/RAP/RACR is accurate and complete. No further remedial action activity is necessary on the Pond Parcel and a Comprehensive No Further Remediation letter is anticipated.

9.0 REFERENCES

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10. Roy F. Weston, 2000. *Comprehensive Site Investigation Report, The Peoples Gas Light and Coke Company Rogers Park Sub-Shop Property, South Parcel, 6659 North Kedzie Avenue Chicago, Illinois*.
11. U.S. Environmental Protection Agency (USEPA) 1984. *Health Assessment Document for Inorganic Arsenic*. Research Triangle Park, NC.

TABLES

Table 1
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB21-001 0-1'	RPM-SB21-002 1-2'	RPM-SB21-003 2-3'	RPM-SB21-004 8-10'	RPM-SB22-001 0-0.5'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ 7'
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.006
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025 U	0.025 U	0.025 U	0.025 U	0.033
Acenaphthylene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.710
Anthracene	59,000	23,000	--	0.025 U	0.025 U	0.025 U	0.025 U	0.223
Benzo[a]anthracene	8	0.9	--	0.040	0.025 U	0.025 U	0.025 U	0.663
Benzo[b]fluoranthene	25	0.9	--	0.030	0.025 U	0.025 U	0.025 U	0.435
Benzo[k]fluoranthene	250	9	--	0.030	0.025 U	0.025 U	0.025 U	0.161
Benzo[g,h,i]perylene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.277
Benzo[a]pyrene	82	0.09	--	0.030	0.025 U	0.025 U	0.025 U	0.211
Chrysene	800	88	--	0.054	0.025 U	0.025 U	0.025 U	1.37
Dibenz[a,h]anthracene	7.6	0.09	--	0.025 U	0.025 U	0.025 U	0.025 U	0.281
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.072	0.025 U	0.025 U	0.025 U	1.19
Fluorene	2,800	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.176
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.267
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.033	0.025 U	0.025 U	0.025 U	0.431
Pyrene	21,000	2,300	--	0.070	0.025 U	0.025 U	0.025 U	1.32
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	7.58	16.50	9.89	6.71	5.13
Barium	1,800	5,500	690,000	364	85.10	67.00	71.40	392
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.617	0.50 U	0.50 U	0.50 U	1.36
Chromium***	28	390	270	32.9	31.90 NR	29.20	28.90 NR	49.5
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	678.0	21.70	20.30	16.00	3,220
Mercury	32	23	10	0.069	0.04 U	0.04 U	0.04 U	0.095
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver***	39	390	--	0.500 U	0.50 U	0.50 U	0.50 U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.074	NA	NA	NA	0.093
SPLP Chromium	1.0	--	--	NA	0.014	NA	0.005 U	NA

NOTES:

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- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
	Soil to GW	Ingestion	Inhalation	RPM-SB22-002 0.5-1'	RPM-SB22-003 1-2'	RPM-SB22-004 2-3'	RPM-SB22-005 5-7'	RPM-SB23-001 0-0.5'
				WT ~ 7'	WT ~ 7'	WT ~ 7'	WT ~ 7'	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002 U	0.002	0.002	0.002 U	0.002
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	--	--	--	0.160	0.372	0.025 U	0.025 U	0.025 U
Anthracene	59,000	23,000	--	0.047	0.113	0.025 U	0.025 U	0.039
Benzo[a]anthracene	8	0.9	--	0.125	0.274	0.027	0.025 U	0.143
Benzo[b]fluoranthene	25	0.9	--	0.089	0.230	0.025 U	0.025 U	0.100
Benzo[k]fluoranthene	250	9	--	0.094	0.233	0.025 U	0.025 U	0.122
Benzo[g,h,i]perylene	--	--	--	0.072	0.150	0.025 U	0.025 U	0.094
Benzo[a]pyrene	82	0.09	--	0.240	0.268	0.025 U	0.025 U	0.104
Chrysene	800	88	--	0.239	0.500	0.034	0.025 U	0.157
Dibenzol[a,l]anthracene	7.6	0.09	--	0.025 U	0.065	0.025 U	0.025 U	0.030
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.145	0.413	0.025 U	0.025 U	0.275
Fluorene	2,800	3,100	--	0.025 U	0.090	0.025 U	0.025 U	0.025 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.025 U	0.152	0.025 U	0.025 U	0.025 U
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthere	--	--	--	0.090	0.311	0.025 U	0.025 U	0.150
Pyrene	21,000	2,300	--	0.026	0.593	0.034	0.025 U	0.228
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	4.51	4.51	6.54	12.30	7.18
Barium	1,800	5,500	690,000	184	82.3	83.80	60.10	126
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	1.74	1.01	0.50 U	0.50 U	0.500 U
Chromium***	28	390	270	21.3	20.1	27.30	25.70	22.5
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	7.230	950	30.40	19.40	42.0
Mercury	32	23	10	0.040 U	0.040 U	0.04 U	0.04 U	0.043
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver***	39	390	--	0.500 U	0.500 U	0.50 U	0.50 U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.005	0.031	NA	NA	0.005
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB23-002 0.5-1'	RPM-SB23-003 1-2'	RPM-SB23-004 2-3'	RPM-SB23-005 8-10'	RPM-SB24-001 0.5-1'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002 U	0.002 U	0.005	0.002 U	0.002U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.006	0.005 U	0.005U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005U
Toluene	29	16,000	650	0.005 U	0.005 U	0.012	0.005 U	0.005U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.007	0.005 U	0.005U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Acenaphthylene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Anthracene	59,000	23,000	--	0.025 U	0.025 U	0.025 U	0.025 U	0.027
Benz[a]anthracene	8	0.9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.085
Benz[b]fluoranthene	25	0.9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.053
Benz[k]fluoranthene	250	9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.067
Benz[g,h,i]perylene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.036
Benz[a]pyrene	82	0.09	--	0.025 U	0.025 U	0.025 U	0.025 U	0.045
Chrysene	800	88	--	0.025 U	0.025 U	0.025 U	0.025 U	0.084
Dibenz[a,h]anthracene	7.6	0.09	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.175
Fluorene	2,800	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.025 U	0.025 U	0.025 U	0.025 U	0.040
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	0.025 U	0.025 U	0.025 U	0.025 U	0.025U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.025 U	0.025 U	0.025 U	0.025 U	0.076
Pyrene	21,000	2,300	--	0.025	0.025 U	0.025 U	0.025 U	0.173
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	6.44	5.53	4.58	10.2	14.60
Barium	1,800	5,500	690,000	71.3	46.8	49.9	65.2	23.10
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500 U	0.5U
Chromium***	28	390	270	23.0	20.3	23.3	27.0	19.80
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	24.7	35.8	12.5	15.1	32.50
Mercury	32	23	10	0.040 U	0.040 U	0.040 U	0.040 U	0.04U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.00 U	1.00 U	1.00 U	1.04
Silver***	39	390	--	0.500 U	0.500 U	0.500 U	0.500 U	0.5U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.25 U	0.25 U	0.25 U	0.25U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
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- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB24-002 3-4'	RPM-SB24-003 5-7'	RPM-SB25-001 2-3'	RPM-SB25-002 5-7'	RPM-SB26-001 0-1'
	Soil to GW	Ingestion	Inhalation	WT ~ 10'	WT ~ 10'	WT ~ 9'	WT ~ 9'	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.007	0.002	0.002U	0.003J	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.005U	0.005 U
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005U	0.005 U
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005U	0.005 U
Xylenes	150	160,000	410	0.005U	0.005U	0.005U	0.005U	0.005 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025U	0.025U	0.025U	0.025U	0.025U
Acenaphthylene	--	--	--	0.025U	0.025U	0.025U	0.025U	0.025U
Anthracene	59,000	23,000	--	0.025U	0.025U	0.025U	0.025U	0.046
Benzo(a)anthracene	8	0.9	--	0.025U	0.025U	0.025U	0.025U	0.138
Benzo(b)fluoranthene	25	0.9	--	0.025U	0.025U	0.025U	0.025U	0.054
Benzo(k)fluoranthene	250	9	--	0.025U	0.025U	0.025U	0.025U	0.054
Benzo(g,h,i)perylene	--	--	--	0.025U	0.025U	0.025U	0.025U	0.025 U
Benzo(a)pyrene	82	0.09	--	0.025U	0.025U	0.025U	0.025U	0.060
Chrysene	800	88	--	0.025U	0.025U	0.025U	0.025U	0.171
Dibenz[a,h]anthracene	7.6	0.09	--	0.025U	0.025U	0.025U	0.025U	0.025 U
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.025U	0.025U	0.034	0.025U	0.338
Fluorene	2,800	3,100	--	0.025U	0.025U	0.025U	0.025U	0.025 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.025U	0.025U	0.025U	0.025U	0.026
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	0.025U	0.025U	0.025U	0.025U	0.025 U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.025U	0.025U	0.025U	0.025U	0.159
Pyrene	21,000	2,300	--	0.025U	0.025U	0.040	0.025U	0.276
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	10.70	5.72	7.83	2.44	5.39
Barium	1,800	5,500	690,000	60.20	39.40	73.40	39.70	63.1
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.5U	0.5U	0.5U	0.5U	0.500 U
Chromium***	28	390	270	27.00	16.70	26.20	16.80	17.1
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	18.70	16.90	16.70	14.10	77.7
Mercury	32	23	10	0.050	0.044	0.04U	0.04U	0.134
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1U	1U	1U	1U	1.00 U
Silver***	39	390	--	0.5U	0.5U	0.5U	0.5U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600	--	0.25U	0.25U	0.25U	0.25U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	0.005 U
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB26-002 2-3'	RPM-SB26-003 8-10'	RPM-SB27-001 1-2'	RPM-SB27-002 2-3'	RPM-SB27-003 7-9'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002 U	0.002	0.004	0.002	0.002 U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	150	160,000	410	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.072	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	--	--	--	0.264	0.025 U	0.085	0.025 U	0.062
Anthracene	59,000	23,000	--	0.260	0.025 U	0.034	0.025 U	0.029
Benzo[a]anthracene	8	0.9	--	0.712	0.025 U	0.082	0.025 U	0.057
Benzo[b]fluoranthene	25	0.9	--	0.613	0.025 U	0.049	0.025 U	0.034
Benzo[k]fluoranthene	250	9	--	0.519	0.025 U	0.030	0.025 U	0.027
Benzo[g,h,i]perylene	--	--	--	0.329	0.025 U	0.025 U	0.025 U	0.029
Benzo[a]pyrene	82	0.09	--	1.21	0.025 U	0.048	0.025 U	0.036
Chrysene	800	88	--	0.810	0.025 U	0.122	0.025 U	0.119
Dibenz[a,h]anthracene	7.6	0.09	--	0.088	0.025 U	0.025 U	0.025 U	0.025 U
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	1.26	0.025 U	0.172	0.025 U	0.151
Fluorene	2,800	3,100	--	0.142	0.025 U	0.025 U	0.025 U	0.031
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.054	0.025 U	0.025 U	0.025 U	0.028
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	0.025	0.025 U	0.025 U	0.025 U	0.025 U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.685	0.025 U	0.098	0.025 U	0.087
Pyrene	21,000	2,300	--	1.18	0.025 U	0.157	0.025 U	0.151
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	7.57	5.05	5.20	3.79	4.77
Barium	1,800	5,500	690,000	62.1	62.1	61.0	68.2	96.0
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chromium***	28	390	270	18.5	24.7	15.9	29.6	25.1
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	122	12.5	281	18.6	14.0
Mercury	32	23	10	0.054	0.040 U	0.043	0.040 U	0.040 U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Silver	--	390	--	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.60	0.25 U	0.25 U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.034	NA	0.014	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB28-001 0'-1'	RPM-SB28-002 2-3'	RPM-SB28-003 6-8'	RPM-SB29-001 2-3'	RPM-SB29-002 5-7'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.007	0.002 U	0.002 U	0.002U	0.004
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.011	0.005 U	0.005 U	0.005U	0.005U
Styrene	18	16,000	1,500	0.005 U	0.005 U	0.005 U	0.005U	0.005U
Toluene	29	16,000	650	0.005	0.005 U	0.005 U	0.005U	0.005U
Xylenes (total)	150	160,000	410	0.050	0.005 U	0.005 U	0.005U	0.005U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025 U	0.025 U	0.025 U	0.036	0.029J
Acenaphthylene	--	--	--	0.126	0.025 U	0.025 U	0.025U	0.267J
Anthracene	59,000	23,000	--	0.072	0.025 U	0.025 U	0.112	0.08J
Benzof[a]anthracene	8	0.9	--	0.178	0.025 U	0.025 U	0.186	0.221J
Benzo[b]fluoranthene	25	0.9	--	0.112	0.025 U	0.025 U	0.151	0.113J
Benzo[k]fluoranthene	250	9	--	0.119	0.025 U	0.025 U	0.130	0.136J
Benzo[g,h,i]perylene	--	--	--	0.075	0.025 U	0.025 U	0.102	0.1J
Benzo[a]pyrene	82	0.09	--	0.252	0.025 U	0.025 U	0.182	0.248J
Chrysene	800	88	--	0.245	0.025 U	0.025 U	0.172	0.265J
Dibenzof[a,h]anthracene	7.6	0.09	--	0.028	0.025 U	0.025 U	0.055	0.065J
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.315	0.025 U	0.025 U	0.313	0.122J
Fluorene	2,800	3,100	--	0.034	0.025 U	0.025 U	0.041	0.047J
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.077	0.025 U	0.025 U	0.102	0.102J
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	0.025 U	0.025 U	0.025 U	0.025U	0.076J
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.148	0.025 U	0.025 U	0.278	0.089J
Pyrene	21,000	2,300	--	0.277	0.025 U	0.025 U	0.281	0.229J
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	2.25	4.70	11.6	5.530	9.650
Barium	1,800	5,500	690,000	38.2	72.4	52.9	37.500	61.900
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500 U	0.500U	0.500U
Chromium***	28	390	270	8.73	29.1 NR	29.6 NR	11.500	21.200
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	146	19.5	30.8	38.9	64
Mercury	32	23	10	0.040 U	0.040 U	0.040 U	0.261	0.137
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.00 U	1.17	1.00 U	1.000U	1.000U
Silver***	39	390	--	0.500 U	0.500 U	0.500 U	0.837	0.500U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide	120	1,600	--	0.25 U	0.25 U	0.25 U	0.250U	0.250U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.09	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	0.005 U	0.005	NA	NA

NOTES:

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- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB29A-001 2-3'	RPM-SB29A-002 9-11'	RPM-SB30-001 2-3'	RPM-SB30-002 3-5'	RPM-SB30-003 7-9'
Soil to GW	Ingestion	Inhalation	WT ~ 10'	WT ~ 10'	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	17,800	0.200	27,700	124,000	31,300
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	10,000	0.170	8,900	43,100	11,200
Styrene	18	16,000	1,500	0.600	0.084	0.084	0.100U	0.055
Toluene	29	16,000	650	2,670	0.397	0.136	0.144	0.820
Xylenes (total)	150	160,000	410	21,200	1.280	6,550	19,200	7,860
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	80,500	0.129J	0.530	2,110	3,820
Acenaphthylene	--	--	--	51,800	0.218J	0.218	2,710	2,840
Anthracene	59,000	23,000	--	149,000	0.41J	0.385	2,180	3,850
Benz[a]anthracene	8	0.9	--	94,800	0.305J	0.394	2,590	4,730
Benz[b]fluoranthene	25	0.9	--	19,700	0.1J	0.174	0.857	1,920
Benz[k]fluoranthene	250	9	--	19,500	0.076J	0.128	0.673	1,370
Benz[g,h,i]perylene	--	--	--	12,000	0.044J	0.077	0.384	0.738
Benz[a]pyrene	82	0.09	--	57,200	0.136J	0.238	2,070	2,910
Chrysene	800	88	--	99,500	0.32J	0.405	2,590	5,010
Dibenz[a,h]anthracene	7.6	0.09	--	12,200	0.029J	0.051	0.356	0.574
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	155,000	0.45J	0.472	1,230	5,910
Fluorene	2,800	3,100	--	386,000	1.29J	1,330	3,270	6,240
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	69	0.9	--	13,000	0.045J	0.083	0.399	0.799
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	208,000	0.607J	1,700	9,460	8,540
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	376,000	1.24J	1,930	7,570	12,900
Pyrene	21,000	2,300	--	203,000	0.613J	0.653	3,000	8,430
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	4,180	5,300	4,180	18,000	4,630
Barium	1,800	5,500	690,000	95,700	58,800	91,600	70,900	45,500
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500U	0.500U	0.515	0.500U	0.500U
Chromium***	28	390	270	13,600	13,100	22,500	22,700	15,500
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	302,000	61,200	517,000	43,900	132,000
Mercury	32	23	10	0.189	0.103	0.040U	0.040U	0.040U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1,000U	1,000U	1,000U	1,000U	1,000U
Silver***	39	390	--	0.500U	0.500U	0.500U	0.500U	0.500U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600	--	0.47U	0.25U	0.25U	0.25U	0.25U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB31-001 1-2'	RPM-SB31-002 2-3'	RPM-SB31-003 5-7'	RPM-SB61-001 0-1'	RPM-SB61-002 1-2'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.007	0.002U	0.002U	0.003	0.017
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.005 U	0.005 U
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005 U	0.005 U
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005 U	0.005
Xylenes	150	160,000	410	0.009	0.005U	0.005U	0.005 U	0.005 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025U	0.025U	0.025U	0.070	0.883
Acenaphthylene	--	--	--	0.025U	0.025U	0.025U	1.060	8.090
Anthracene	59,000	23,000	--	0.025U	0.025U	0.025U	0.351	2.360
Benzo(a)anthracene	8	0.9	--	0.025U	0.025U	0.025U	0.741	1.320
Benzo(b)fluoranthene	25	0.9	--	0.025U	0.025U	0.025U	0.316	0.809
Benzo(k)fluoranthene	250	9	--	0.025U	0.025U	0.025U	0.389	0.607
Benzo(g,h,I)perylene	--	--	--	0.025U	0.025U	0.025U	0.318	2.140
Benzo(a)pyrene	82	0.09	--	0.025U	0.025U	0.025U	0.449	1.190
Chrysene	800	88	--	0.025U	0.025U	0.025U	0.803	1.340
Dibenzof[a,h]anthracene	7.6	0.09	--	0.025U	0.025U	0.025U	0.170	0.792
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.025U	0.025U	0.025U	1.020	0.951
Fluorene	2,800	3,100	--	0.025U	0.025U	0.025U	0.221	1.950
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.025U	0.025U	0.025U	0.331	1.590
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	0.025U	0.025U	0.025U	0.025 U	1.900
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	0.025U	0.025U	0.025U	0.403	0.548
Pyrene	21,000	2,300	--	0.025U	0.025U	0.025U	0.981	2.740
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	3.590	33.900	9.520	5.560	3.070
Barium	1,800	5,500	690,000	62.400	52.800	37.900	73.3	50.8
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500U	0.500U	0.500U	0.500 U	0.500 U
Chromium***	28	390	270	20.700	27.200	14.100	16.6	14.0
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	19.400	18.500	15.500	228	203
Mercury	32	23	10	0.040U	0.040U	0.040U	0.118	0.048
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1.000U	1.000U	1.000U	1.000 U	1.000 U
Silver***	39	390	--	0.500U	0.500U	0.500U	0.500 U	0.500 U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600	--	0.25U	0.25U	0.25U	0.25 U	0.25 U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB61-003 2-3'	RPM-SB61-004 4-6'	RPM-SB70-001 6-8'	RPM-SB71-001 6-8'	RPM-SB72-001 6-8'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ 10'	WT ~ 16'	WT ~ 9'
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	26,000	115,000	0.002U	0.002U	0.002U
Carbon Disulfide	160	7,800	720	NA	NA	NA	NA	NA
Ethylbenzene	19	7,800	400	41,400	36,500	0.005U	0.005U	0.005U
Styrene	18	16,000	1,500	0.050 U	4,990	0.005U	~0.005U	0.005U
Toluene	29	16,000	650	0.978	73,200	0.005U	0.005U	0.005U
Xylenes	150	160,000	410	64,100	72,200	0.005U	0.005U	0.005U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.735 J	5.150	0.025U	0.025U	0.025U
Acenaphthylene	--	--	--	0.769 J	6,700	0.025U	0.025U	0.041
Anthracene	59,000	23,000	--	0.649 J	7,910	0.025U	0.025U	0.025U
Benzo(a)anthracene	8	0.9	--	0.689 J	6,290	0.025U	0.025U	0.029
Benzo(b)fluoranthene	25	0.9	--	0.197 J	1,320	0.025U	0.025U	0.041
Benzo(k)fluoranthene	250	9	--	0.217 J	1,200	0.025U	0.025U	0.031
Benzo(g,h,I)perylene	--	--	--	0.144 J	0.587	0.025U	0.025U	0.030
Benzo(a)pyrene	82	0.09	--	0.339 J	1,780	0.025U	0.025U	0.035
Chrysene	800	88	--	0.745 J	6,610	0.025U	0.025U	0.056
Dibeno[a,h]anthracene	7.6	0.09	--	0.093 J	0.478	0.025U	0.025U	0.025U
Dibenzofuran	--	--	--	NA	NA	NA	NA	NA
Fluoranthene	21,000	3,100	--	0.762 J	7,810	0.025U	0.025U	0.043
Fluorene	2,800	3,100	--	1.270 J	14,400	0.025U	0.025U	0.025U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.163 J	0.712	0.025U	0.025U	0.027
2-Methylnaphthalene	--	--	--	NA	NA	NA	NA	NA
Naphthalene	420	3,100	--	1.380 J	15,600	0.025U	0.025U	0.025U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	NA	NA
Phenanthrene	--	--	--	1.740 J	33,800	0.025U	0.025U	0.031
Pyrene	21,000	2,300	--	1.510 J	10,300	0.025U	0.025U	0.063
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	NA	NA
Arsenic*	120	13	750	4,130	5,140	6.03	3,12	2.24
Barium	1,800	5,500	690,000	63,100	48,000	27,60	34,40	51,10
Beryllium	130,000	160	1,300	NA	NA	NA	NA	NA
Cadmium	590	78	1,800	0.500 U	0.500 U	0.500U	0.500U	0.500U
Chromium***	28	390	270	20.2	20.9	14.50	18.90	22.70
Copper	330,000	2,900	--	NA	NA	NA	NA	NA
Lead**	--	400	--	20.7	13.5	12.10	14.10	42.70
Mercury	32	23	10	0.040 U	0.040 U	0.040U	0.040U	0.040U
Nickel	14,000	1,600	13,000	NA	NA	NA	NA	NA
Selenium	2.4	390	--	1,000 U	1,000 U	1,000U	1,000U	1,000U
Silver***	39	390	--	0.500 U	0.500 U	0.500U	0.500U	0.500U
Thallium	34	6.3	--	NA	NA	NA	NA	NA
Zinc	32,000	23,000	--	NA	NA	NA	NA	NA
Total Cyanide (amenable)	120	1,600	--	0.25 U	0.25 U	0.25U	0.25U	0.25U
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	NA	NA
SPLP Chromium	1.0	--	--	NA	NA	NA	NA	NA

NOTES:

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Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				RPM-SB73-001 3-5'	RPM-SB74-001 6-8'	RPM-SB75-001 7-8'	B-12 8-10'	B-13 3.5-4.5'
	Soil to GW	Ingestion	Inhalation	WT ~ 12'	WT ~ 5'	WT ~ 7.5'	WT ~ 8'	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.002U	0.002U	0.002U	0.156	0.01
Carbon Disulfide	160	7,800	720	NA	NA	NA	0.033	0.005 U
Ethylbenzene	19	7,800	400	0.005U	0.005U	0.005U	0.006	0.157
Styrene	18	16,000	1,500	0.005U	0.005U	0.005U	0.005 U	0.007
Toluene	29	16,000	650	0.005U	0.005U	0.005U	0.005 U	0.005
Xylenes	150	160,000	410	0.031	0.005U	0.005U	0.062	0.143
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.025U	0.025U	0.025U	0.33 UJ	10.6 J
Acenaphthylene	--	--	--	0.025U	0.040	0.025U	0.33 U	0.33 U
Anthracene	59,000	23,000	--	0.025U	0.026	0.025U	0.33 U	13.9
Benzo(a)anthracene	8	0.9	--	0.025U	0.056	0.025U	0.33 U	7.08
Benzo(b)fluoranthene	25	0.9	--	0.025U	0.025U	0.025U	0.33 U	1.22
Benzo(k)fluoranthene	250	9	--	0.025U	0.025U	0.025U	0.33 U	1.09
Benzo(g,h,i)perylene	--	--	--	0.025U	0.027	0.025U	0.33 U	2.87
Benzo(a)pyrene	82	0.09	--	0.025U	0.043	0.025U	0.33 U	1.81
Chrysene	800	88	--	0.026	0.061	0.025U	0.33 U	0.33 U
Dibenz[a,h]anthracene	7.6	0.09	--	0.025U	0.025U	0.025U	0.33 U	0.33 U
Dibenzofuran	--	--	--	NA	NA	NA	0.33 U	0.33 U
Fluoranthene	21,000	3,100	--	0.041	0.044	0.025U	0.33 U	0.33 U
Fluorene	2,800	3,100	--	0.025U	0.037	0.025U	0.33 U	0.33 U
Hexachlorocyclopentadiene	2200	550	10	NA	NA	NA	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.025U	0.025U	0.025U	0.33 U	0.33 U
2-Methylnaphthalene	--	--	--	NA	NA	NA	0.33 U	0.33 U
Naphthalene	420	3,100	--	0.025U	0.025U	0.025U	0.33 U	0.33 U
N-nitrosodiphenylamine	5.6	130	--	NA	NA	NA	0.33 U	0.33 U
Phenanthrene	--	--	--	0.025U	0.055	0.025U	0.33 U	0.33 U
Pyrene	21,000	2,300	--	0.037	0.068	0.025U	0.33 U	0.33 U
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	NA	NA	NA	2.3 U	1.9 U
Arsenic*	120	13	750	7.93	5.95	7.13	3	2.5
Barium	1,800	5,500	690,000	66.80	55.30	54.70	44.9	39.5
Beryllium	130,000	160	1,300	NA	NA	NA	0.46 U	0.47
Cadmium	590	78	1,800	0.500U	0.500U	0.500U	0.23 U	0.2
Chromium***	28	390	270	20.40	19.40	21.50	13.8	12.9
Copper	330,000	2,900	--	NA	NA	NA	17.1	16.7
Lead**	--	400	--	65.90	29.00	13.80	10.5	250
Mercury	32	23	10	0.040U	0.040U	0.040U	0.07	0.04 U
Nickel	14,000	1,600	13,000	NA	NA	NA	16.5	16.7
Selenium	2.4	390	--	1.00U	1.00U	1.00U	0.58 U	0.47
Silver***	39	390	--	0.500U	0.500U	0.500U	0.58 U	0.47 U
Thallium	34	6.3	--	NA	NA	NA	1.2 U	0.93 U
Zinc	32,000	23,000	--	NA	NA	NA	43.1	3880
Total Cyanide (amenable)	120	1,600	--	0.25U	0.25U	0.25U	NA	NA
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	NA	NA	NA	0.0075 U	0.025
SPLP Chromium	1.0	--	--	NA	NA	NA	0.05 U	0.05 U

NOTES:

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- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives		Sample Location and Depth (feet below ground surface)/Concentration					
			B-13 13-14'	B-14 6-8'	B-14 Dup. 6-8'	B-15 7-8'	B-16 8-10'	
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.005 U	0.005 U	NA	2.55 J	0.200 U
Carbon Disulfide	160	7,800	720	0.005 U	0.005 U	NA	0.028 J	0.25 U
Ethylbenzene	19	7,800	400	0.005 U	0.005 U	NA	0.006 J	0.15 U
Styrene	18	16,000	1,500	0.005 U	0.005 U	NA	1.78 J	0.15 U
Toluene	29	16,000	650	0.005 U	0.005 UJ	NA	0.005 UJ	0.2 U
Xylenes	150	160,000	410	0.005	0.005 U	NA	12.1 J	0.45 U
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.33 UJ	0.33 UJ	0.33 UJ	1.42 J	0.33 U
Acenaphthylene	--	--	--	0.33 U	0.33 U	0.33 U	7.96	1.75
Anthracene	59,000	23,000	--	0.33 U	0.33 U	0.33 U	6.98	5.84
Benzo(a)anthracene	8	0.9	--	0.33 U	0.33 U	0.33 U	4.13	2.7
Benzo(b)fluoranthene	25	0.9	--	0.33 U	0.33 U	0.33 U	0.723	0.361
Benzo(k)fluoranthene	250	9	--	0.33 U	0.33 U	0.33 U	0.546	0.362
Benzo(g,h,i)perylene	--	--	--	0.33 U	0.33 U	0.33 U	0.496	0.33 U
Benzo(a)pyrene	82	0.09	--	0.33 U	0.33 U	0.33 U	0.924	0.437
Chrysene	800	88	--	0.33 U	0.33 U	0.33 U	4.45	2.96
Dibenzof[a,h]anthracene	7.6	0.09	--	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Dibenzofuran	--	--	--	0.33 U	0.33 U	0.33 U	0.617	0.33 U
Fluoranthene	21,000	3,100	--	0.33 U	0.33 U	0.33 U	6.62	4.64
Fluorene	2,800	3,100	--	0.33 U	0.33 U	0.33 U	7.51	5.80
Hexachlorocyclopentadiene	2200	550	10	0.33 U	0.33 UJ	0.33 UJ	0.33 U	0.33 U
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Methylnaphthalene	--	--	--	0.33 U	0.33 U	0.33 U	13.70	0.424 J
Naphthalene	420	3,100	--	0.33 U	0.33 U	0.33 U	17.20	0.577
N-nitrosodiphenylamine	5.6	130	--	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Phenanthrene	--	--	--	0.33 U	0.33 U	0.33 U	20.30	17.70
Pyrene	21,000	2,300	--	0.33 U	0.33 U	0.33 U	9.31	6.58 J
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	2.1 U	2.2 U	2 U	1.9 U	2.1 U
Arsenic*	120	13	750	9.3	8.8	3.7	8.2	6.4
Barium	1,800	5,500	690,000	35.9	58.2	43.9	34.9	50.4
Beryllium	130,000	160	1,300	0.59	0.72	0.69	0.53	0.67
Cadmium	590	78	1,800	0.21 U	0.51	0.44	0.19 U	0.21 U
Chromium***	28	390	270	17.2	20.6	21.7	16.1	20.7
Copper	330,000	2,900	--	35.8	26.4	29	25.9	29
Lead**	--	400	--	16.3	12.4	19.4	12.9	13.7
Mercury	32	23	10	0.04 U	0.04 U	0.04 U	0.07	0.04 U
Nickel	14,000	1,600	13,000	36.1	31.7	29.3	26.3	32.2
Selenium	2.4	390	--	0.55	0.91	0.51	0.49 U	0.53 U
Silver***	39	390	--	0.52 U	0.55 U	0.5 U	0.49 U	0.53 U
Thallium	34	6.3	--	1 U	1.1 U	1.2	0.97 U	1.1 U
Zinc	32,000	23,000	--	45.3	44	46.5	42.4	63.2
Total Cyanide (amenable)	120	1,600	--	NA	NA	NA	NA	NA
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
SPLP Chromium	1.0	--	--	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

NOTES:

- (1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.
- (2) J - Indicates an estimated value.
- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
				B-16 10-12'	B-16 Dup. 10-12'	B-18 6-8'	B-18 12-14'	SS-12 0-2'
	Soil to GW	Ingestion	Inhalation	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE	WT ~ NE
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.005 UJ	0.005 U	72.1	0.46	0.005 UJ
Carbon Disulfide	160	7,800	720	0.005 UJ	0.005 U	0.25 U	0.005 U	0.005 UJ
Ethylbenzene	19	7,800	400	0.005 UJ	0.005 U	59.4	0.01	0.005 UJ
Styrene	18	16,000	1,500	0.005 UJ	0.005 U	0.15 U	0.005	0.005 UJ
Toluene	29	16,000	650	0.005 UJ	0.005 UJ	69.7	0.052 J	0.005 UJ
Xylenes	150	160,000	410	0.005 UJ	0.005 U	115	0.03 J	0.005 UJ
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.33 UJ	NA	12.9 J	0.33 UJ	0.33 UJ
Acenaphthylene	--	--	--	0.33 U	NA	13.5	0.33 U	0.33 U
Anthracene	59,000	23,000	--	0.33 U	NA	21.1	0.33 U	0.33 U
Benzo(a)anthracene	8	0.9	--	0.33 U	NA	13.7	0.33 U	0.33 U
Benzo(b)fluoranthene	25	0.9	--	0.33 U	NA	1.19	0.33 U	0.33 U
Benzo(k)fluoranthene	250	9	--	0.33 U	NA	1.00	0.33 U	0.33 U
Benzo(g,h,I)perylene	--	--	--	0.33 U	NA	3.09	0.33 U	0.33 U
Benzo(a)pyrene	82	0.09	--	0.33 U	NA	1.64	0.33 U	0.33 U
Chrysene	800	88	--	0.33 U	NA	17.3	0.33 UJ	0.33 U
Dibenzo[a,h]anthracene	7.6	0.09	--	0.33 U	NA	1.80	0.33 UJ	0.33 U
Dibenzofuran	--	--	--	0.33 U	NA	0.33 U	0.33 UJ	0.33 U
Fluoranthene	21,000	3,100	--	0.33 U	NA	23.4	0.33 UJ	0.33 U
Fluorene	2,800	3,100	--	0.33 U	NA	35.0	0.33 UJ	0.33 U
Hexachlorocyclopentadiene	2200	550	10	0.33 UJ	NA	0.33 UJ	0.33 UJ	0.33 UJ
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.33 U	NA	2.25	0.33 UJ	0.33 U
2-Methylnaphthalene	--	--	--	0.33 UJ	NA	105	0.33 UJ	0.33 U
Naphthalene	420	3,100	--	0.33 U	NA	107	0.33 UJ	0.33 U
N-nitrosodiphenylamine	5.6	130	--	0.33	NA	0.33 U	0.33 UJ	0.33 U
Phenanthrene	--	--	--	0.33 U	NA	90.1	0.33 UJ	0.33 U
Pyrene	21,000	2,300	--	0.33 U	NA	33.0	0.33 UJ	0.33 U
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	2.1 U	NA	2.1 U	1.9 U	1.7
Arsenic*	120	13	750	8.3	NA	4.2	6.9	7.3
Barium	1,800	5,500	690,000	48.8	NA	51.6	48.8	66.3
Beryllium	130,000	160	1,300	0.61	NA	0.72	0.64	0.89
Cadmium	590	78	1,800	0.21 U	NA	0.43	0.44	0.4
Chromium***	28	390	270	19.1	NA	21.5	19.2	23.8
Copper	330,000	2,900	--	27.2	NA	26.1	27.3	25
Lead**	--	400	--	12.7	NA	11.8	11.6	39.2
Mercury	32	23	10	0.04 U	NA	0.04 U	0.1	0.04 U
Nickel	14,000	1,600	13,000	28.6	NA	29.7	30.4	30.8
Selenium	2.4	390	--	0.52 U	NA	0.51 U	0.5 U	0.7
Silver***	39	390	--	0.52 U	NA	0.51 U	0.48 U	0.48
Thallium	34	6.3	--	1 U	NA	1.3	0.96	0.86
Zinc	32,000	23,000	--	39.6	NA	44.5	41.5	60.7
Total Cyanide (amenable)	120	1,600	--	NA	NA	NA	NA	NA
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.0075 U	NA	0.0075 U	0.0075 U	0.013
SPLP Chromium	1.0	--	--	0.05 U	NA	0.05 U	0.005 U	0.05 U

NOTES:

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- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001)
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 1 (Continued)
Summary of Detected Constituents and Comparison with Tier 1 Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Sample Location and Depth (feet below ground surface)/Concentration				
	Soil to GW	Ingestion	Inhalation	SS-12 Dup. 0-2'	WT ~ NE			
TCL VOCs (mg/kg)								
Benzene	0.17	22	0.8	0.005 U				
Carbon Disulfide	160	7,800	720	0.005 U				
Ethylbenzene	19	7,800	400	0.005 U				
Styrene	18	16,000	1,500	0.005 U				
Toluene	29	16,000	650	0.005 U				
Xylenes	150	160,000	410	0.005 U				
TCL SVOCs (mg/kg)								
Acenaphthene	2,900	4,700	--	0.33 U				
Acenaphthylene	--	--	--	0.33 U				
Anthracene	59,000	23,000	--	0.33 U				
Benzo(a)anthracene	8	0.9	--	0.33 U				
Benzo(b)fluoranthene	25	0.9	--	0.33 U				
Benzo(k)fluoranthene	250	9	--	0.33 U				
Benzo(g,h,i)perylene	--	--	--	0.33 U				
Benzo(a)pyrene	82	0.09	--	0.33 U				
Chrysene	800	88	--	0.33 U				
Dibenz[a,h]anthracene	7.6	0.09	--	0.33 U				
Dibenzofuran	--	--	--	0.33 U				
Fluoranthene	21,000	3,100	--	0.33 U				
Fluorene	2,800	3,100	--	0.33 U				
Hexachlorocyclopentadiene	2200	550	10	0.33 U				
Indeno(1,2,3-cd)pyrene	69	0.9	--	0.33 U				
2-Methylnaphthalene	--	--	--	0.33 U				
Naphthalene	420	3,100	--	0.33 U				
N-nitrosodiphenylamine	5.6	130	--	0.33 U				
Phenanthrene	--	--	--	0.33 U				
Pyrene	21,000	2,300	--	0.33 U				
Priority Pollutant Metals (mg/kg)								
Antimony	20	31	--	1.8 U				
Arsenic*	120	13	750	7.9				
Barium	1,800	5,500	690,000	57.8				
Beryllium	130,000	160	1,300	0.8				
Cadmium	590	78	1,800	0.39				
Chromium***	28	390	270	22.2				
Copper	330,000	2,900	--	23.7				
Lead**	--	400	--	24.3				
Mercury	32	23	10	0.1				
Nickel	14,000	1,600	13,000	31.8				
Selenium	2.4	390	--	0.52				
Silver***	39	390	--	0.45 U				
Thallium	34	6.3	--	0.91 U				
Zinc	32,000	23,000	--	49.6				
Total Cyanide (amenable)	120	1,600	--	NA				
SPLP Lead and Chromium (mg/L)								
SPLP Lead	0.1	--	--	0.017				
SPLP Chromium	1.0	--	--	0.05 U				

NOTES:

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- (3) NA - Not Analyzed
- (4) Shaded values exceeded Tier 1 screening level.
- (5) -- Toxicity criteria not available for exposure route (Illinois EPA 2001).
- (6) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (7) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.
- (8) * Calculated 95% upper confidence limit for arsenic at the site (9.007 mg/kg) is below the 13 mg/kg remediation objective.

Table 2
Final Remediation Objectives - Soil
Rogers Park Pond Parcel

Compound/Analyte	Tier 1 Remediation Objectives			Final Remediation Objective
	Soil to GW	Ingestion	Inhalation	
TCL VOCs (mg/kg)				
Benzene	0.17	22	0.8	0.17
Ethylbenzene	19	7,800	400	19
Toluene	29	16,000	650	29
TCL SVOCs (mg/kg)				
Benzo[a]anthracene	8	0.9	--	0.9
Benzo[b]fluoranthene	25	0.9	--	0.9
Benzo[k]fluoranthene	250	9	--	9
Benzo[a]pyrene	82	0.09	--	0.09
Chrysene	800	88	--	88
Dibenzo[a,h]anthracene	7.6	0.09	--	0.09
Indeno[1,2,3-cd]pyrene	69	0.9	--	0.9
Priority Pollutant Metals (mg/kg)				
Chromium***	28	390	270	28
Lead**	--	400	--	400
SPLP Lead and Chromium (mg/L)				
SPLP Lead	0.1	--	--	0.1
SPLP Chromium	1.0	--	--	1.0

NOTES:

- (1) ** No pH-dependent value was available so SPLP analyses from select samples was used to evaluate this pathway.
- (2) *** No pH-dependent Class II value was available therefore the Class I value was used to evaluate this pathway.

Table 3
Meteorological Data During Excavation
Rogers Park Pond Parcel

Date	Time	Outside Temperature (°F)	Wind Speed (mph)	High Wind Speed (mph)	Wind Direction (1)	Barometer Pressure (in-Hg)
7/19/01	3:00p	--	3	12	NW	30.029
7/19/01	3:30p	--	4	12	NW	30.019
7/19/01	4:00p	--	4	10	NW	30.013
7/20/01	7:00a	--	0	0	---	30.048
7/20/01	12:00p	--	3	8	NNW	29.954
7/20/01	4:00p	--	4	11	NW	29.906
7/23/01	7:00a	--	3	8	ENE	29.832
7/23/01	12:00p	--	4	9	E	29.836
7/23/01	4:00p	--	2	9	NW	29.845
7/24/01	7:00a	--	0	2	NE	29.864
7/24/01	12:00p	--	3	9	NW	29.877
7/24/01	4:00p	--	3	10	NW	29.836
7/25/01	7:00a	--	4	9	W	29.849
7/25/01	12:00p	--	6	14	W	29.882
7/25/01	4:00p	--	8	20	W	29.889
7/26/01	7:00a	--	2	7	WNW	30.031
7/26/01	12:00p	--	5	13	WNW	30.115
7/26/01	4:00p	--	7	16	W	30.12
7/27/01	7:00a	--	3	9	N	30.198
7/27/01	12:00p	--	3	9	NNW	30.191
7/27/01	4:00p	--	4	11	NW	30.129
7/30/01	7:00a	--	1	3	W	29.975
7/30/01	12:00p	81.1	3	9	N	29.983
7/30/01	4:00p	--	4	9	N	29.96
7/31/01	7:00a	--	2	6	ENE	30.069
7/31/01	12:00p	--	3	12	E	30.068
7/31/01	4:00p	--	5	15	N	30.037
8/01/01	7:00a	--	4	11	ENE	30.112
8/01/01	12:00p	--	6	15	NNE	30.125
8/01/01	4:00p	--	5	11	NE	30.088
8/02/01	7:00a	--	2	10	NW	30.116
8/02/01	12:00p	--	1	7	ESE	30.101
8/02/01	4:00p	--	1	5	W	30.067
8/03/01	7:00a	--	2	5	NE	30.013
8/03/01	12:00p	--	3	10	SW	30.032
8/03/01	4:00p	--	5	9	SW	29.983
8/06/01	7:00a	--	0	4	N	30.113
8/06/01	12:00p	--	4	14	NE	30.113
8/06/01	4:00p	--	4	13	NE	30.041
8/07/01	7:00a	--	2	7	ENE	30.069
8/07/01	12:00p	--	6	13	SE	30.048
8/07/01	4:00p	--	2	7	W	29.99
8/08/01	7:00a	--	2	6	ENE	29.991
8/08/01	12:00p	--	5	11	NE	29.965
8/08/01	4:00p	--	6	14	NNE	29.891
8/09/01	7:00a	--	2	5	N	29.853
8/09/01	12:00p	93.9	5	14	NE	29.79
8/09/01	4:00p	--	7	19	NNE	29.712
8/10/01	7:00a	--	7	16	SSW	29.92
8/10/01	12:00p	--	7	17	S	29.994

Notes:

(1) The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from, however, after this time, the wind direction given is the direction the wind is blowing from

(2) mph - miles per hour

(3) °F - degrees Fahrenheit

(4) in-Hg - inches of mercury

Table 3 (Continued)
Meteorological Data During Excavation
Rogers Park Pond Parcel

Date	Time	Outside Temperature (°F)	Wind Speed (mph)	High Wind Speed (mph)	Wind Direction (1)	Barometer Pressure (in-Hg)
8/10/01	4:00p	--	7	16	SSW	30.006
8/13/01	7:00a	70.9	6	13	SSW	30.071
8/13/01	12:00p	73	9	19	SW	30.138
8/13/01	4:00p	--	8	21	SSW	30.119
8/14/01	7:00a	--	3	6	SE	30.117
8/14/01	12:00p	--	5	14	SW	30.088
8/14/01	4:00p	--	3	8	SW	30.043
8/15/01	7:00a	--	0	2	NNE	29.954
8/15/01	12:00p	--	4	11	NNE	29.895
8/15/01	4:00p	--	4	8	SE	29.891
8/16/01	7:00a	--	6	13	N	29.634
8/16/01	12:00p	--	8	15	SE	29.694
8/16/01	4:00p	--	6	14	E	29.784
8/17/01	7:00a	--	2	8	ESE	29.956
8/17/01	12:00p	--	7	16	ESE	29.983
8/17/01	4:00p	--	5	10	NNE	29.951
8/20/01	7:00a	--	3	6	SE	29.985
8/20/01	12:00p	--	7	15	SSW	30.019
8/20/01	4:00p	--	4	11	SW	29.998
8/21/01	7:00a	--	0	2	NNW	30.043
8/21/01	12:00p	--	7	17	N	30.013
8/21/01	4:00p	--	9	20	N	29.912
8/22/01	7:00a	--	4	9	N	29.869
8/22/01	12:00p	--	10	21	N	29.864
8/22/01	4:00p	--	5	12	SSW	29.857
8/23/01	7:00a	--	1	3	ENE	29.931
8/23/01	12:00p	--	6	11	SW	29.994
8/23/01	4:00p	--	4	10	SW	30.013
8/24/01	7:00a	--	0	2	SSW	30.06
8/24/01	12:00p	--	2	6	W	30.034
8/24/01	4:00p	--	4	13	SW	29.989
8/27/01	7:00a	--	0	3	SE	29.943
8/27/01	12:00p	--	6	13	NNE	29.84
8/27/01	4:00p	--	6	16	NNE	29.776
8/28/01	7:00a	--	3	10	ESE	29.881
8/28/01	12:00p	--	5	11	SW	29.96
8/28/01	4:00p	--	4	11	SW	29.958
8/29/01	7:00a	--	0	0	---	30.012
8/29/01	12:00p	--	2	8	NW	29.989
8/29/01	4:00p	--	3	7	W	29.965
8/30/01	7:00a	--	4	9	N	29.803
8/30/01	12:00p	--	6	18	NNE	29.768
8/30/01	4:00p	--	5	13	ENE	29.729
8/31/01	7:00a	--	2	5	NE	29.776
8/31/01	12:00p	--	6	13	S	29.851
8/31/01	4:00p	--	0	0	---	29.96
9/04/01	7:00a	--	0	0	---	30.063
9/04/01	12:00p	--	6	15	N	30.147
9/04/01	4:00p	--	8	17	N	30.143
9/05/01	7:00a	--	2	5	ESE	30.218
9/05/01	12:00p	--	4	9	ESE	30.23
9/05/01	4:00p	--	4	10	NE	30.169

Notes:

(1) The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from, however, after this time, the wind direction given is the direction the wind is blowing from

(2) mph - miles per hour

(3) °F - degrees Fahrenheit

(4) in-Hg - inches of mercury

Table 3 (Continued)
Meteorological Data During Excavation
Rogers Park Pond Parcel

Date	Time	Outside Temperature (°F)	Wind Speed (mph)	High Wind Speed (mph)	Wind Direction (1)	Barometer Pressure (in-Hg)
9/06/01	7:00a	--	3	8	SE	30.127
9/06/01	10:00a	79.5	6	12	SE	30.095
9/07/01	8:00a	--	4	11	SSE	29.806
9/07/01	12:00p	--	8	17	SSE	29.771
9/07/01	4:00p	--	10	26	SE	29.7
9/10/01	7:00a	--	2	5	SW	30.141
9/10/01	12:00p	--	7	20	S	30.14
9/10/01	4:00p	--	6	15	WSW	30.146
9/11/01	7:00a	--	0	0	---	30.312
9/11/01	12:00p	--	4	10	E	30.29
9/11/01	4:00p	--	3	10	E	30.221
9/12/01	7:00a	--	2	6	SE	30.169
9/12/01	12:00p	--	5	11	S	30.121
9/12/01	4:00p	--	5	11	SW	30.059
9/13/01	7:00a	--	5	16	NNE	30.206
9/13/01	12:00p	--	8	21	N	30.264
9/13/01	4:00p	--	7	17	N	30.278
9/14/01	7:00a	--	4	13	ENE	30.412
9/14/01	12:00p	--	6	15	ENE	30.413
9/14/01	4:00p	--	5	13	NE	30.346
9/17/01	7:00a	--	1	3	SSE	30.066
9/17/01	12:00p	--	3	6	SW	30.07
9/17/01	4:00p	--	3	8	N	30.024
9/18/01	7:00a	--	0	3	NNE	30.015
9/18/01	12:00p	--	4	12	ENE	30.002
9/18/01	4:00p	--	4	10	N	29.951
9/19/01	7:00a	--	5	13	SSE	29.557
9/19/01	12:00p	--	4	9	SSW	29.566
9/19/01	4:00p	--	8	18	WNW	29.661
9/20/01	7:00a	--	2	4	SW	29.932
9/20/01	12:00p	--	7	20	WNW	29.952
9/20/01	4:00p	--	3	9	SW	29.908
9/21/01	7:00a	--	2	5	WSW	29.827
9/21/01	12:00p	--	6	14	NW	29.883
9/21/01	4:00p	--	4	9	N	29.928
9/24/01	7:00a	47.8	8	19	NNW	30.142
9/24/01	12:00p	--	11	28	NNW	30.196
9/24/01	4:00p	--	11	26	NNW	30.196
9/25/01	7:00a	--	7	14	NW	30.167
9/25/01	12:00p	--	9	21	NW	30.143
9/25/01	4:00p	--	5	12	N	30.078
9/26/01	7:00a	--	5	14	WNW	29.993
9/26/01	12:00p	--	6	16	WNW	29.964
9/26/01	4:00p	--	10	20	WNW	29.93

Notes:

1) The wind direction given until September 4, 2001, is the direction the wind is blowing to and not from, however, after this time, the wind direction given is the direction the wind is blowing from

(2) mph - miles per hour

(3) °F - degrees Fahrenheit

(4) in-Hg - inches of mercury

Table 4
Pre-Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

Date Sampled	Sample ID	Concentration (ppbv)				
		Benzene	Toluene	Ethyl Benzene	m,p-Xylene	o-Xylene
07/20/2001	RPM-E-SUM-07-20-01	1.2 U	2.7	1.2 U	1.3	1.2 U
	RPM-S-SUM-07-20-01	1.2 U	9.1	1.2 U	1.8	1.2 U
	RPM-W-SUM-07-20-01	1.2 U	5.2	1.2 U	2.3	1.2 U
07/23/2001	RPM-E-SUM-07-23-01	1.1 U	1.5	1.1 U	1.1	1.1 U
	RPM-S-SUM-07-23-01	1.5	3.8	1.2	4.1	1.9
	RPM-N-SUM-07-23-01	0.88 U	1.5	0.88 U	1.4	0.88 U
	RPM-W-SUM-07-23-01	2.6	4.5	1 U	2.3	1.3
07/24/2001	RPM-N-SUM-07-24-01	0.94 U	1.1	0.94 U	0.94 U	0.94 U
	RPM-S-SUM-07-24-01	0.94 U	1	0.94 U	1	0.94 U
	RPM-W-SUM-07-24-01	0.94 U	1.3	0.94 U	1	0.94 U
	RPM-E-SUM-07-24-01	0.98 U	1.7	0.98 U	1.5	0.98 U

NOTES:

(1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit.

(2) ppbv - parts per billion by volume

Table 5
Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

Date Sampled	Sample ID	Concentration (ppbv)							
		Benzene		Toluene		Ethylbenzene		m,p-Xylene	
		Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result
07/25/2001	RPM-W-SUM-07-25-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U	--	0.92 U
07/26/2001	RPM-N-SUM-07-26-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U	--	0.92 U
	RPM-W-SUM-07-26-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U	--	0.92 U
07/27/2001	RPM-N-SUM-07-27-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U	--	0.98 U
	RPM-S-SUM-07-27-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U	--	0.98 U
	RPM-E-SUM-07-27-01	39	9.6	2,211	1.7	4,883	2.1	--	2.9
	RPM-W-SUM-07-27-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
07/30/2001	RPM-S-SUM-07-30-01	39	1.1	2,211	0.98 U	4,883	0.98 U	--	0.98 U
	RPM-E-SUM-07-30-01	39	1.3	2,211	1 U	4,883	1 U	--	1 U
07/31/2001	RPM-N-SUM-07-31-01	39	2.2	2,211	1.2	4,883	0.98 U	--	0.98 U
	RPM-E-SUM-07-31-01	39	3.6	2,211	1.2	4,883	1 U	--	1 U
	RPM-E-ERI-SUM	39	3.88 J	2,211	0.85 J	4,883	2.44 J	--	1.97 J
	RPM-N-SUM-08-01-01	39	0.96 U	2,211	0.96	4,883	0.96 U	--	0.96 U
08/01/2001	RPM-S-SUM-08-01-01	39	1.2	2,211	1	4,883	0.94 U	--	1
	RPM-E-SUM-08-01-01	39	2.7	2,211	1.1	4,883	0.96 U	--	0.99
	RPM-W-SUM-08-01-01	39	0.96 U	2,211	1.6	4,883	0.96 U	--	1
	RPM-N-ERI-SUM	39	3.82	2,211	2.14	4,883	0.72	--	1.4
	RPM-N-SUM-08-02-01	39	3.3	2,211	3.2	4,883	1 U	--	2.5
08/02/2001	RPM-S-SUM-08-02-01	39	7.9	2,211	18	4,883	3.8	--	21
	RPM-E-SUM-08-02-01	39	15	2,211	6.6	4,883	3.9	--	5.7
	RPM-W-SUM-08-02-01	39	10	2,211	8.2	4,883	2.6	--	11
	RPM-S-SUM-08-03-01	39	2.1	2,211	1.2	4,883	1 U	--	1.3
08/03/2001	RPM-W-SUM-08-03-01	39	1.6	2,211	1.9	4,883	1 U	--	1.2
	RPM-N-SUM-08-06-01	39	8.5	2,211	4.8	4,883	1.5	--	3.2
08/06/2001	RPM-S-SUM-08-06-01	39	1.2	2,211	2.5	4,883	0.98 U	--	1.6
	RPM-E-SUM-08-06-01	39	17	2,211	6.7	4,883	3	--	5.4
	RPM-W-SUM-08-06-01	39	1.3	2,211	2.1	4,883	1 U	--	1.2
	RPM-N-SUM-08-07-01	39	3.4	2,211	2.4	4,883	0.98 U	--	1.9
08/07/2001	RPM-S-SUM-08-07-01	39	1.8	2,211	1.8	4,883	0.98 U	--	1.6
	RPM-E-SUM-08-07-01	39	23	2,211	12	4,883	2.5	--	7
	RPM-W-SUM-08-07-01	39	3.9	2,211	3.6	4,883	1 U	--	1.8
	RPM-N-SUM-08-08-01	39	8.6	2,211	5.4	4,883	1.3	--	3.7
08/08/2001	RPM-E-SUM-08-08-01	39	37	2,211	16	4,883	5.7	--	13
	RPM-N-SUM-08-09-01	39	4.8	2,211	3.7	4,883	1 U	--	2.6
08/09/2001	RPM-S-SUM-08-09-01	39	1.1 U	2,211	1.3	4,883	1.1 U	--	1.3
	RPM-E-SUM-08-09-01	39	6.6	2,211	4.1	4,883	1.4	--	4.3
	RPM-W-SUM-08-09-01	39	1.1 U	2,211	1.3	4,883	1.1 U	--	2.5
	RPM-S-SUM-08-10-01	39	2	2,211	2	4,883	1.2	--	1.2 U
08/10/2001	RPM-W-SUM-08-10-01	39	1.2 U	2,211	1.2 U	4,883	1.2 U	--	1.2 U
	RPM-S-SUM-08-13-01	39	2.6	2,211	1.1	4,883	0.96 U	--	0.96 U
08/13/2001	RPM-W-SUM-08-13-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	1.5
	RPM-N-SUM-08-14-01	39	1.1 U	2,211	1.3	4,883	1.1 U	--	1.1 U
	RPM-S-SUM-08-14-01	39	1.1 U	2,211	1.2	4,883	1.1 U	--	1.3
	RPM-E-SUM-08-14-01	39	0.88 U	2,211	1.2	4,883	0.88 U	--	1.3
08/14/2001	RPM-W-SUM-08-14-01	39	1.1 U	2,211	1.2	4,883	1.1 U	--	1.7
	RPM-N-SUM-08-15-01	39	1	2,211	1.9	4,883	1 U	--	1 U
	RPM-E-SUM-08-15-01	39	1 U	2,211	2.4	4,883	1 U	--	1 U
	RPM-W-SUM-08-15-01	39	1 U	2,211	3.2	4,883	1 U	--	1 U

NOTES:

(1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit

(2) J - Indicates estimated value

(3) ppbv - parts per billion by volume

Table 5 (Continued)
Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

Date Sampled	Sample ID	Concentration (ppbv)							
		Benzene		Toluene		Ethylbenzene		m,p-Xylene	
		Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result
08/16/2001	RPM-N-SUM-08-16-01	39	1 U	2,211	1.8	4,883	1 U	--	1
	RPM-S-SUM-08-16-01	39	1 U	2,211	1.4	4,883	1 U	--	1 U
	RPM-E-SUM-08-16-01	39	1 U	2,211	1.3	4,883	1 U	--	1 U
08/17/2001	RPM-N-SUM-08-17-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-S-SUM-08-17-01	39	1 U	2,211	1.2	4,883	1 U	--	1 U
	RPM-E-SUM-08-17-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-W-SUM-08-17-01	39	1 U	2,211	1 J	4,883	1 U	--	1 U
08/20/2001	RPM-S-SUM-08-20-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-E-SUM-08-20-01	39	0.96 U	2,211	1.2	4,883	0.96 U	--	0.96 U
	RPM-W-SUM-08-20-01	39	1 U	2,211	1.2	4,883	1 U	--	1 U
08/21/2001	RPM-N-SUM-08-21-01	39	0.96 U	2,211	2.3	4,883	0.96 U	--	1.7
	RPM-E-SUM-08-21-01	39	0.96 U	2,211	2.3	4,883	0.96 U	--	1.1
08/22/2001	RPM-N-SUM-08-22-01	39	1 U	2,211	1.6	4,883	1 U	--	1 U
	RPM-S-SUM-08-22-01	39	1 U	2,211	5.3	4,883	1 U	--	1 U
	RPM-E-SUM-08-22-01	39	1 U	2,211	5	4,883	1 U	--	1 J
	RPM-W-SUM-08-22-01	39	1 U	2,211	4.9	4,883	1 U	--	1 U
08/23/2001	RPM-N-SUM-08-23-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U	--	0.98 U
	RPM-S-SUM-08-23-01	39	0.98 U	2,211	2.3	4,883	0.98 U	--	0.98 U
	RPM-E-SUM-08-23-01	39	0.98 U	2,211	3.3	4,883	3.2	--	11
	RPM-W-SUM-08-23-01	39	0.98 U	2,211	1.9	4,883	0.98 U	--	0.98 U
08/24/2001	RPM-N-SUM-08-24-01	39	1.1 U	2,211	2.8	4,883	2.7	--	10
	RPM-S-SUM-08-24-01	39	1.1 U	2,211	6.1	4,883	1.1 U	--	1.1 U
	RPM-E-SUM-08-24-01	39	1.1 U	2,211	2.6	4,883	2.2	--	8.2
	RPM-W-SUM-08-24-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
08/27/2001	RPM-N-SUM-08-27-01	39	1 U	2,211	2	4,883	1 U	--	1 U
	RPM-S-SUM-08-27-01	39	1 U	2,211	2.3	4,883	1 U	--	3.6
	RPM-E-SUM-08-27-01	39	1 U	2,211	2.1	4,883	1 U	--	1 U
	RPM-W-SUM-08-27-01	39	1 U	2,211	2	4,883	1 U	--	1 U
08/28/2001	RPM-S-SUM-08-28-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-W-SUM-08-28-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
08/29/2001	RPM-N-SUM-08-29-01	39	1 U	2,211	5.5	4,883	1.6	--	1.1
	RPM-W-SUM-08-29-01	39	1.3	2,211	2.1	4,883	1 U	--	1 U
08/30/2001	RPM-N-SUM-08-30-01	39	1 U	2,211	1.7	4,883	1 U	--	1 U
	RPM-S-SUM-08-30-01	39	1.2 U	2,211	1.9	4,883	1.2 U	--	1.8
	RPM-E-SUM-08-30-01	39	1.2 U	2,211	1.8	4,883	1.2 U	--	1.2 U
	RPM-W-SUM-08-30-01	39	1.2 U	2,211	1.6	4,883	1.2 U	--	1.2 U
08/31/2001	RPM-S-SUM-08-31-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
09/04/2001	RPM-S-SUM-09-04-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	0.96 U
09/05/2001	RPM-N-SUM-09-05-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-S-SUM-09-05-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-E-SUM-09-05-01	39	1 U	2,211	1	4,883	1 U	--	1 U
	RPM-W-SUM-09-05-01	39	0.98 U	2,211	0.98 U	4,883	0.98 U	--	0.98 U
09/06/2001	RPM-N-SUM-09-06-01	39	1.1 U	2,211	2.4	4,883	1.1 U	--	1.1 U
	RPM-W-SUM-09-06-01	39	1.1	2,211	2.8	4,883	1.1 U	--	1.2
09/07/2001	RPM-N-SUM-09-07-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
	RPM-W-SUM-09-07-01	39	1.1 U	2,211	1.3	4,883	1.1 U	--	1.1 U

NOTES:

(1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit

(2) J - Indicates estimated value

(3) ppbv - parts per billion by volume

Table 5 (Continued)
Excavation Air Sampling Analytical Results
Rogers Park Pond Parcel

Date Sampled	Sample ID	Concentration (ppbv)							
		Benzene		Toluene		Ethylbenzene		m,p-Xylene	
		Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result	Action Level	Analytical Result
09/10/2001	RPM-N-SUM-09-10-01	39	0.98 U	2,211	1.4	4,883	0.98 U	--	0.98 U
	RPM-S-SUM-09-10-01	39	0.98 U	2,211	1.1	4,883	0.98 U	--	0.98 U
	RPM-E-SUM-09-10-01	39	0.96 U	2,211	1	4,883	0.96 U	--	0.96 U
	RPM-W-SUM-09-10-01	39	0.98 U	2,211	1.2	4,883	0.98 U	--	0.98 U
09/11/2001	RPM-N-SUM-09-11-01	39	0.98 U	2,211	3	4,883	0.98 U	--	2.4
	RPM-W-SUM-09-11-01	39	1 U	2,211	2.6	4,883	1 U	--	1 U
09/12/2001	RPM-N-SUM-09-12-01	39	1 U	2,211	1.2	4,883	1 U	--	1 U
	RPM-W-SUM-09-12-01	39	1 U	2,211	1.5	4,883	1 U	--	1.1
09/13/2001	RPM-N-SUM-09-13-01	39	1 U	2,211	2	4,883	1 U	--	1 U
	RPM-S-SUM-09-13-01	39	0.88 U	2,211	4.9	4,883	0.88 U	--	0.88 U
	RPM-E-SUM-09-13-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-W-SUM-09-13-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
09/14/2001	RPM-S-SUM-09-14-01	39	1.1 U	2,211	5.2	4,883	6.3	--	25
	RPM-W-SUM-09-14-01	39	0.96 U	2,211	4.8	4,883	6.7	--	26
09/19/2001	RPM-N-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U	--	0.98 U
	RPM-S-SUM-09-19-01	39	0.98 U	2,211	1.2	4,883	0.98 U	--	0.98 U
	RPM-E-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U	--	0.98 U
	RPM-W-SUM-09-19-01	39	0.98 U	2,211	1.3	4,883	0.98 U	--	0.98 U
09/20/2001	RPM-N-SUM-09-20-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
	RPM-S-SUM-09-20-01	39	1 U	2,211	1	4,883	1 U	--	1 U
	RPM-E-SUM-09-20-01	39	1 U	2,211	1 U	4,883	1 U	--	1 U
09/21/2001	RPM-N-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
	RPM-S-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
	RPM-E-SUM-09-21-01	39	1.1 U	2,211	1.1	4,883	1.1 U	--	1.1 U
	RPM-W-SUM-09-21-01	39	1.1 U	2,211	1.1 U	4,883	1.1 U	--	1.1 U
09/24/2001	RPM-S-SUM-09-24-01	39	0.86 U	2,211	0.86 U	4,883	0.86 U	--	0.86 U
	RPM-E-SUM-09-24-01	39	0.92 U	2,211	0.92 U	4,883	0.92 U	--	0.92 U
09/25/2001	RPM-S-SUM-09-25-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U	--	0.94 U
	RPM-E-SUM-09-25-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U	--	0.94 U
09/26/2001	RPM-N-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	0.96 U
	RPM-S-SUM-09-26-01	39	0.94 U	2,211	0.94 U	4,883	0.94 U	--	0.94 U
	RPM-E-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	0.96 U
	RPM-W-SUM-09-26-01	39	0.96 U	2,211	0.96 U	4,883	0.96 U	--	0.96 U

NOTES:

(1) U - Indicates compound/analyte was analyzed for but not detected, the associated value is the sample reporting limit

(2) J - Indicates estimated value

(3) ppbv - parts per billion by volume

Table 6
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration						
		RPP-CS01 -001	RPP-CS02 -001	RPP-CS03 -001	RPP-CS04 -001	RPP-CS04 -002	RPP-CS04 -003	RPP-CS04 -004
		06/21/01	06/26/01	06/26/01	06/21/01	06/25/01	06/28/2001	09/21/2001
BTEX/Styrene (mg/kg)								
Benzene	0.17	NA	NA	NA	NA	NA	NA	NA
Toluene	29	NA	NA	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)								
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.078	0.090	0.031 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.106	0.99	2.09	0.031 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.133	0.501	0.362	0.031 U
Benzo[a]anthracene	0.9	0.051	0.025 U	0.025 U	0.565	0.806	2.91	0.031 U
Benzo[b]fluoranthene	0.9	0.033	0.025 U	0.025 U	0.598	0.331	1.62	0.031 U
Benzo[k]fluoranthene	9	0.038	0.025 U	0.025 U	0.336	0.491	1.16	0.031 U
Benzo[g,h,i]perylene	NR	0.026	0.025 U	0.025 U	0.273	0.295	0.480	0.031 U
Benzo[a]pyrene	0.09	0.043	0.025 U	0.025 U	0.430	0.584	2.01	0.031 U
Chrysene	88	0.061	0.025 U	0.025 U	0.642	0.895	3.01	0.031 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.139	0.142	0.378	0.031 U
Fluoranthene	NR	0.064	0.025 U	0.025 U	0.693	1.75	2.29	0.031 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.252	0.217	0.031 U
Indeno[1,2,3-cd]pyrene	0.9	0.026	0.025 U	0.025 U	0.254	0.305	0.512	0.031 U
Naphthalene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.028	0.088	0.031 U
Phenanthrene	NR	0.029	0.025 U	0.025 U	0.295	0.981	0.329	0.031 U
Pyrene	NR	0.065	0.025 U	0.025 U	0.646	1.68	4.520	0.031 U
Total Metals Method 6020 (mg/kg)								
Beryllium	NR	0.733 J	0.707	0.844	0.678 J	NA	NA	NA
Chromium	28	19.3	19.5	21.1	21.8	NA	NA	NA
Lead	400	234	21.0	22.6	151	NA	NA	NA
SPLP Metals Method 1312/6020 (mg/L)								
Beryllium	NR	0.010 J	0.01 U	0.010 U	0.010 UJ	NA	NA	NA
Chromium	1	0.041	0.307	0.014	0.017	NA	NA	NA
Lead	0.1	0.025	0.117	0.007	0.223	NA	0.008	NA

NOTES:

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(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier i levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration				
		RPP-CS05 -001	RPP-CS06 -001	RPP-CS07 -001	RPP-CS07 -002	RPP-CS07 -003
		06/21/01	06/27/01	06/21/01	06/25/01	06/28/01
BTEX/Styrene (mg/kg)						
Benzene	0.17	NA	NA	NA	NA	NA
Toluene	29	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)						
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.436	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.452	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.051	1.940	0.025 U
Benzo[a]anthracene	0.9	0.032	0.025 U	0.297	3.81	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.204	1.77	0.025 U
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.187	1.750	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.098	0.579	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.199	1.260	0.025 U
Chrysene	88	0.033	0.025 U	0.327	4.280	0.025 U
Dibenzof[a,h]anthracene	0.09	0.025 U	0.025 U	0.048	0.313	0.025 U
Fluoranthene	NR	0.048	0.025 U	0.394	9.820	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.555	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.115	0.652	0.025 U
Naphthalene	NR	0.025 U	0.025 U	0.025 U	0.026	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.198	5.120	0.025 U
Pyrene	NR	0.046	0.025 U	0.340	7.730	0.025 U
Total Metals Method 6020 (mg/kg)						
Beryllium	NR	0.607 J	0.658	0.288 J	NA	NA
Chromium	28	18.5	17.0	10.4	NA	NA
Lead	400	34.5	13.3	116	NA	NA
SPLP Metals Method 1312/6020 (mg/L)						
Beryllium	NR	0.010 UJ	0.010 U	0.010 UJ	NA	NA
Chromium	1	0.021	0.025	0.070	NA	NA
Lead	0.1	0.021	0.033	0.044	NA	NA

NOTES:

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- (2) J- Indicates an estimated Value
- (3) NA- Not Analyzed
- (4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration				
		RPP-CS08 -001	RPP-CS08 -002	RPP-CS08 -003	RPP-CS09 -001	RPP-CS10 -001
		06/21/01	06/25/01	06/28/01	06/27/01	06/29/01
BTEX/Styrene (mg/kg)						
Benzene	0.17	NA	NA	NA	NA	NA
Toluene	29	NA	NA	NA	NA	NA
Ethyl Benzene	19	NA	NA	NA	NA	NA
Xylenes (total)	NR	NA	NA	NA	NA	NA
Styrene	NR	NA	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)						
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.064	0.145	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.059	0.055	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	0.9	0.258	0.167	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.9	0.188	0.242	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	9	0.156	0.133	0.025 U	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.0078	0.070	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.164	0.168	0.025 U	0.025 U	0.025 U
Chrysene	88	0.295	0.204	0.025 U	0.025 U	0.025 U
Dibeno[a,h]anthracene	0.09	0.046	0.033	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.276	0.232	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.036	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.085	0.073	0.025 U	0.025 U	0.025 U
Naphthalene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.104	0.073	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.241	0.240	0.025 U	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)						
Beryllium	NR	0.361 J	NA	NA	0.690	0.694
Chromium	28	9.46	NA	NA	18.8	17.2
Lead	400	137	NA	NA	14.6	12.5
SPLP Metals Method 1312/6020 (mg/L)						
Beryllium	NR	0.010 UJ	NA	NA	0.010 U	0.010 U
Chromium	1	0.010 U	NA	NA	0.147	0.019
Lead	0.1	0.058	NA	NA	0.012	0.007

NOTES:

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- (3) NA- Not Analyzed
- (4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-CSH-01U	RPM-CSH-01L	RPM-CSH-02U	RPM-CSH-02L	RPM-CSH-03U	RPM-CSH-03L
		07/27/01	07/27/01	07/27/01	07/27/01	07/27/01	07/27/01
BTEX/Styrene (mg/kg)							
Benzene	0.17	0.002 U	0.002 U	0.006	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibenz[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA
Lead	400	15.9	19.3	12.3	14.8	14.3	19.3
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA
Lead	0.1	0.01	0.022	0.022	0.005 U	0.082	0.005 U

NOTES:

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(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration						
		RPM-CSH-04U	RPM-CSH-04L	RPM-CSH-05U	RPM-CSH-05L	RPM-CSH-06U	RPM-CSH-06U -02	RPM-CSH-06L
		07/27/01	07/27/01	08/01/01	08/01/01	08/15/01	08/30/01	08/15/01
BTEX/Styrene (mg/kg)								
Benzene	0.17	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)								
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.089	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.38	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.541	0.025 U	0.025 U
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	1.17	0.025 U	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.273	0.025 U	0.025 U
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U	0.025 U	0.370	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.103	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.424	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	1.06	0.025 U	0.025 U
Dibenzo[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.055	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.79	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.238	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.104	0.025 U	0.025 U
Naphthalene	NR	0.025 U	0.025 U	0.025 U	0.025 U	1.34	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.032	0.025 U	0.025 U	1.98	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	2.81	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)								
Beryllium	NR	NA	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA	NA
Lead	400	12.8	16.3	15.1	14.1	14.0	NA	18.7
SPLP Metals Method 1312/6020 (mg/L)								
Beryllium	NR	NA	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA	NA
Lead	0.1	0.013	0.013	0.012	0.005 U	0.006	NA	0.008

NOTES:

(1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-CSH-07U	RPM-CSH-07U -02	RPM-CSH-07L	RPM-CSH-08U	RPM-CSH-08L	RPM-CSH-09
		08/15/01	08/30/01	08/15/01	08/01/01	08/01/01	08/08/01
BTEX/Styrene (mg/kg)							
Benzene	0.17	1.94	0.002 U	0.002 U	0.002 U	0.002 U	0.002
Toluene	29	0.504	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.411	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	2.45	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.590	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibenz[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	NR	0.073	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA
Lead	400	15.6	NA	16.6	16.9	19.7	13.9
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA
Lead	0.1	0.005 U	NA	0.005 U	0.009	0.006	0.011

NOTES:

(1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-CST-01U	RPM-CST-01L	RPM-CST-02U	RPM-CST-02L	RPM-CST-03U	RPM-CST-03L
		08/03/01	08/03/01	08/03/01	08/03/01	08/15/01	08/15/01
BTEX/Styrene (mg/kg)							
Benzene	0.17	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Toluene	29	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	NR	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Anthracene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Chrysene	88	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Dibeno[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluoranthene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Fluorene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Naphthalene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Phenanthrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Pyrene	NR	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	28	NA	NA	NA	NA	NA	NA
Lead	400	15.5	14.2	15.4	14.5	14.2	16.1
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA	NA	NA	NA	NA	NA
Chromium	1	NA	NA	NA	NA	NA	NA
Lead	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.013

NOTES:

(1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-CST-04U	RPM-CST-04L	RPM-CST-05			
		08/08/01	08/08/01	08/08/01			
BTEX/Styrene (mg/kg)							
Benzene	0.17	0.002 U	0.002 U	0.002 U			
Toluene	29	0.005 U	0.005 U	0.005 U			
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U			
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U			
Styrene	NR	0.005 U	0.005 U	0.005 U			
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U	0.025 U	0.025 U			
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U			
Anthracene	NR	0.025 U	0.025 U	0.025 U			
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U			
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U			
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U			
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U			
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U			
Chrysene	88	0.025 U	0.025 U	0.025 U			
Dibenz[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U			
Fluoranthene	NR	0.025 U	0.025 U	0.025 U			
Fluorene	NR	0.025 U	0.025 U	0.025 U			
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U			
Naphthalene	NR	0.025 U	0.025 U	0.025 U			
Phenanthrene	NR	0.025 U	0.025 U	0.025 U			
Pyrene	NR	0.025 U	0.025 U	0.025 U			
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA	NA	NA			
Chromium	28	NA	NA	NA			
Lead	400	16.3	13.3	16.2			
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA	NA	NA			
Chromium	1	NA	NA	NA			
Lead	0.1	0.005 U	0.005 U	0.011			

NOTES:

- (1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.
- (2) J- Indicates an estimated Value
- (3) NA- Not Analyzed
- (4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

Table 6 (Continued)
Remediation Objectives and
Confirmation Soil Sampling Analytical Results
Rogers Park Pond Parcel

Compound/Analyte	Remediation Objectives	Sample Location and Depth (feet below ground surface)/Concentration					
		RPM-N-Pipe	RPM-S-Pipe	RPM-B-Pipe			
		09/04/01	09/04/01	09/04/01			
BTEX/Styrene (mg/kg)							
Benzene	0.17	0.002 U	0.002 U	0.002 U			
Toluene	29	0.005 U	0.005 U	0.005 U			
Ethyl Benzene	19	0.005 U	0.005 U	0.005 U			
Xylenes (total)	NR	0.005 U	0.005 U	0.005 U			
Styrene	NR	0.005 U	0.005 U	0.005 U			
Polynuclear Aromatic Hydrocarbons Method 8270C SIM (mg/kg)							
Acenaphthene	NR	0.025 U	0.025 U	0.025 U			
Acenaphthylene	NR	0.025 U	0.025 U	0.025 U			
Anthracene	NR	0.025 U	0.025 U	0.025 U			
Benzo[a]anthracene	0.9	0.025 U	0.025 U	0.025 U			
Benzo[b]fluoranthene	0.9	0.025 U	0.025 U	0.025 U			
Benzo[k]fluoranthene	9	0.025 U	0.025 U	0.025 U			
Benzo[g,h,i]perylene	NR	0.025 U	0.025 U	0.025 U			
Benzo[a]pyrene	0.09	0.025 U	0.025 U	0.025 U			
Chrysene	88	0.025 U	0.025 U	0.025 U			
Dibenzof[a,h]anthracene	0.09	0.025 U	0.025 U	0.025 U			
Fluoranthene	NR	0.025 U	0.025 U	0.025 U			
Fluorene	NR	0.025 U	0.025 U	0.025 U			
Indeno[1,2,3-cd]pyrene	0.9	0.025 U	0.025 U	0.025 U			
Naphthalene	NR	0.025 U	0.025 U	0.025 U			
Phenanthrene	NR	0.025 U	0.025 U	0.025 U			
Pyrene	NR	0.025 U	0.025 U	0.025 U			
Total Metals Method 6020 (mg/kg)							
Beryllium	NR	NA	NA	NA			
Chromium	28	NA	NA	NA			
Lead	400	12.9	9.87	26.4			
SPLP Metals Method 1312/6020 (mg/L)							
Beryllium	NR	NA	NA	NA			
Chromium	1	NA	NA	NA			
Lead	0.1	0.005 U	0.005 U	0.005 U			

NOTES:

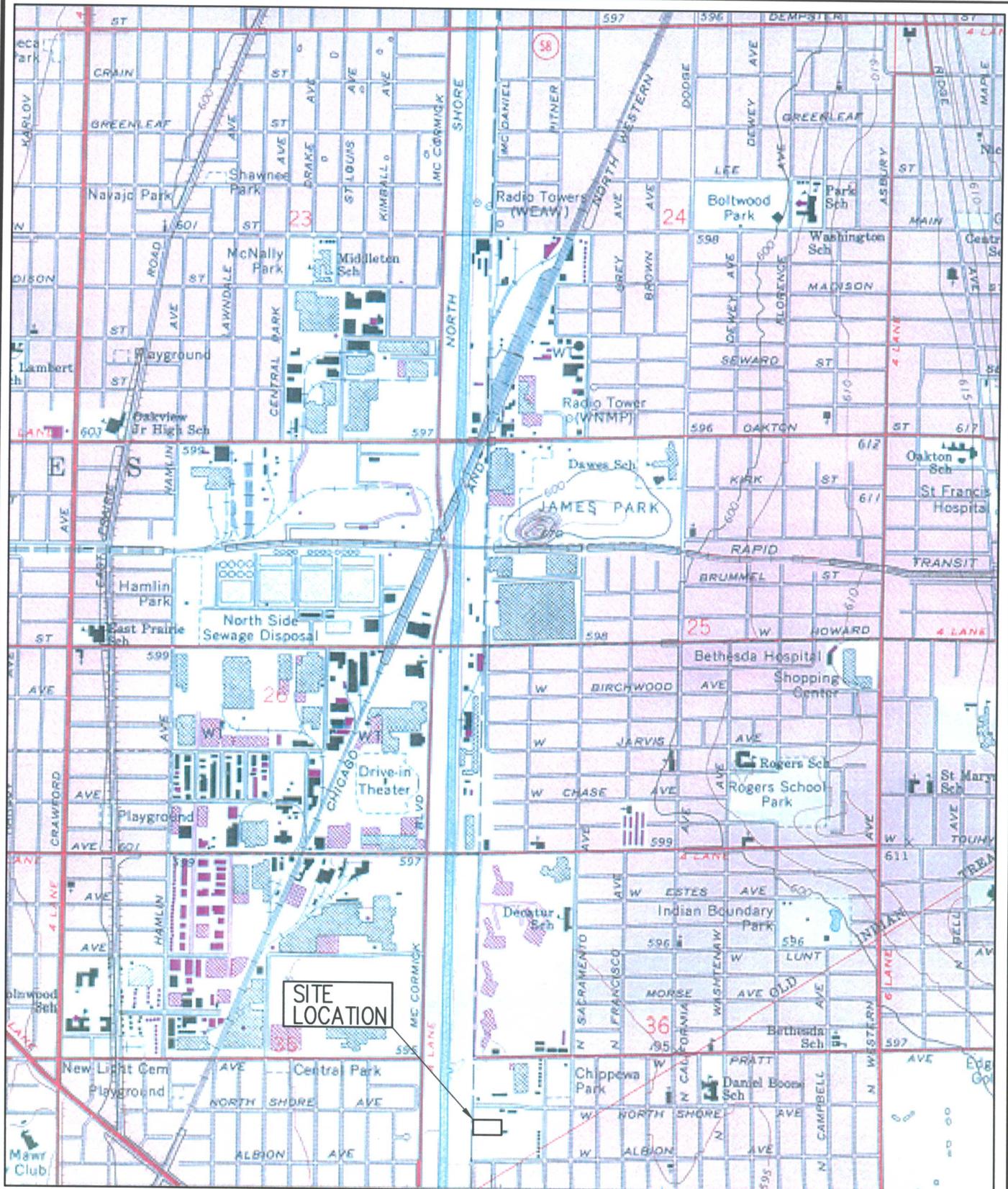
(1) U- Indicates compound/analyte was analyzed for but not detected, the associated value is the sampling reporting limit.

(2) J- Indicates an estimated Value

(3) NA- Not Analyzed

(4) NR - Remedial objective not required - all concentrations below TACO Tier 1 levels.

FIGURES

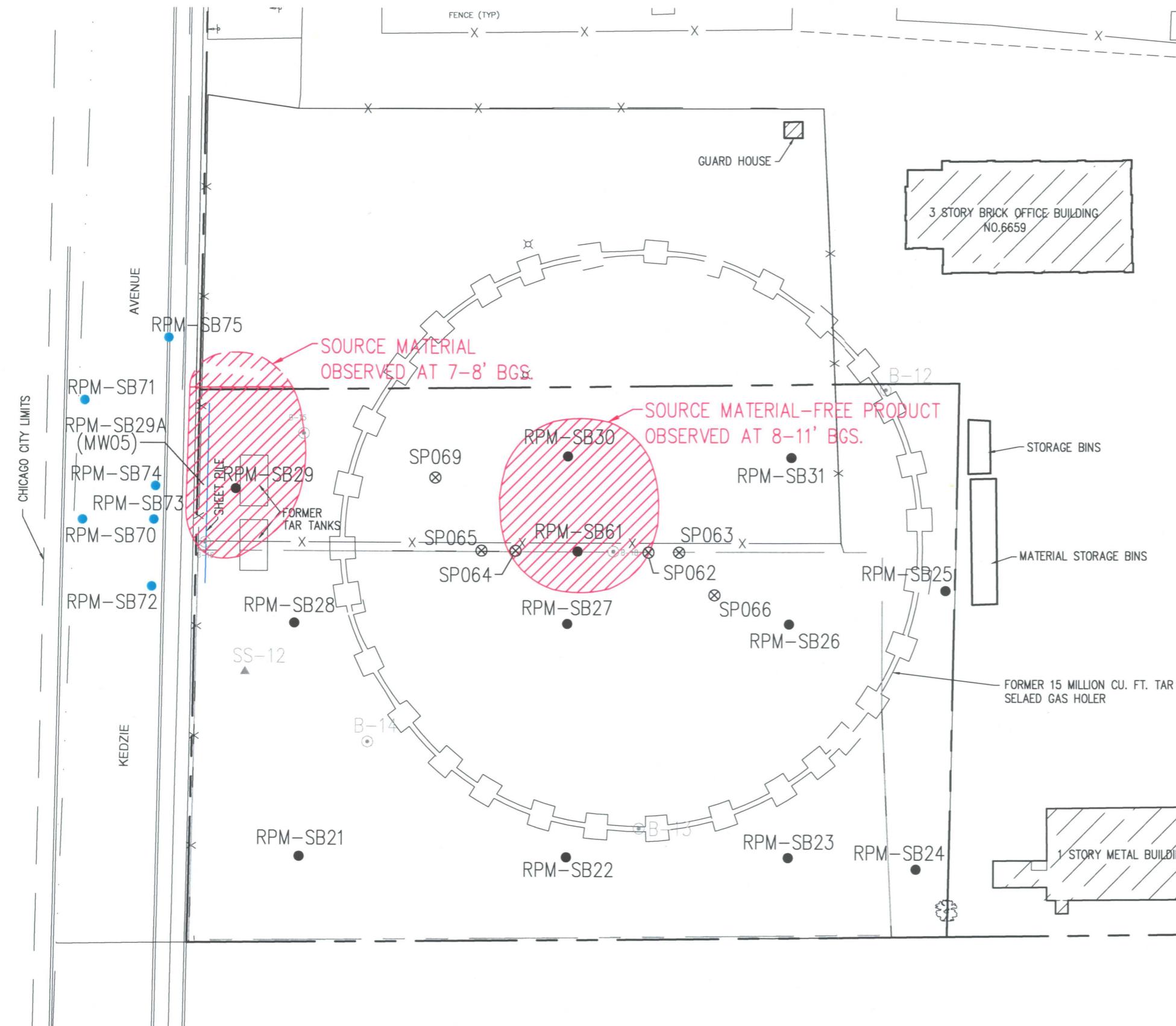


24,000 0 24,000
SCALE IN FEET

Burns & McDonnell
SINCE 1898

Figure 1

SITE LOCATION MAP
THE PEOPLES GAS LIGHT
AND COKE COMPANY
ROGERS PARK – POND PARCEL
CHICAGO, ILLINOIS



LEGEND

- X — FENCE
- FORMER STRUCTURE
- APPROXIMATE PROPERTY LINE-POND PARCEL
- (○) SOIL BORING LOCATIONS
- (●) SOIL PROBE LOCATION
- B-1 (○) PREVIOUS SOIL BORING LOCATION BY WESTON
- SS-01 (▲) PREVIOUS SURFACE SOIL SAMPLE LOCATION BY WESTON
- (▨) SOURCE IMPACT
- (▨▨) POTENTIAL SOURCE OFF SITE

NOTE:

1. CERTAIN SHALLOW SOIL SAMPLES WERE IMPACTED BY PAH'S AND METALS WITHIN POND AREA.
2. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE



50 0 50 100
SCALE IN FEET



Figure 2
SAMPLE LOCATION/SIGNIFICANT FINDINGS MAP
PEOPLES GAS LIGHT & COKE COMPANY
ROGERS PARK – POND PARCEL
CHICAGO, ILLINOIS

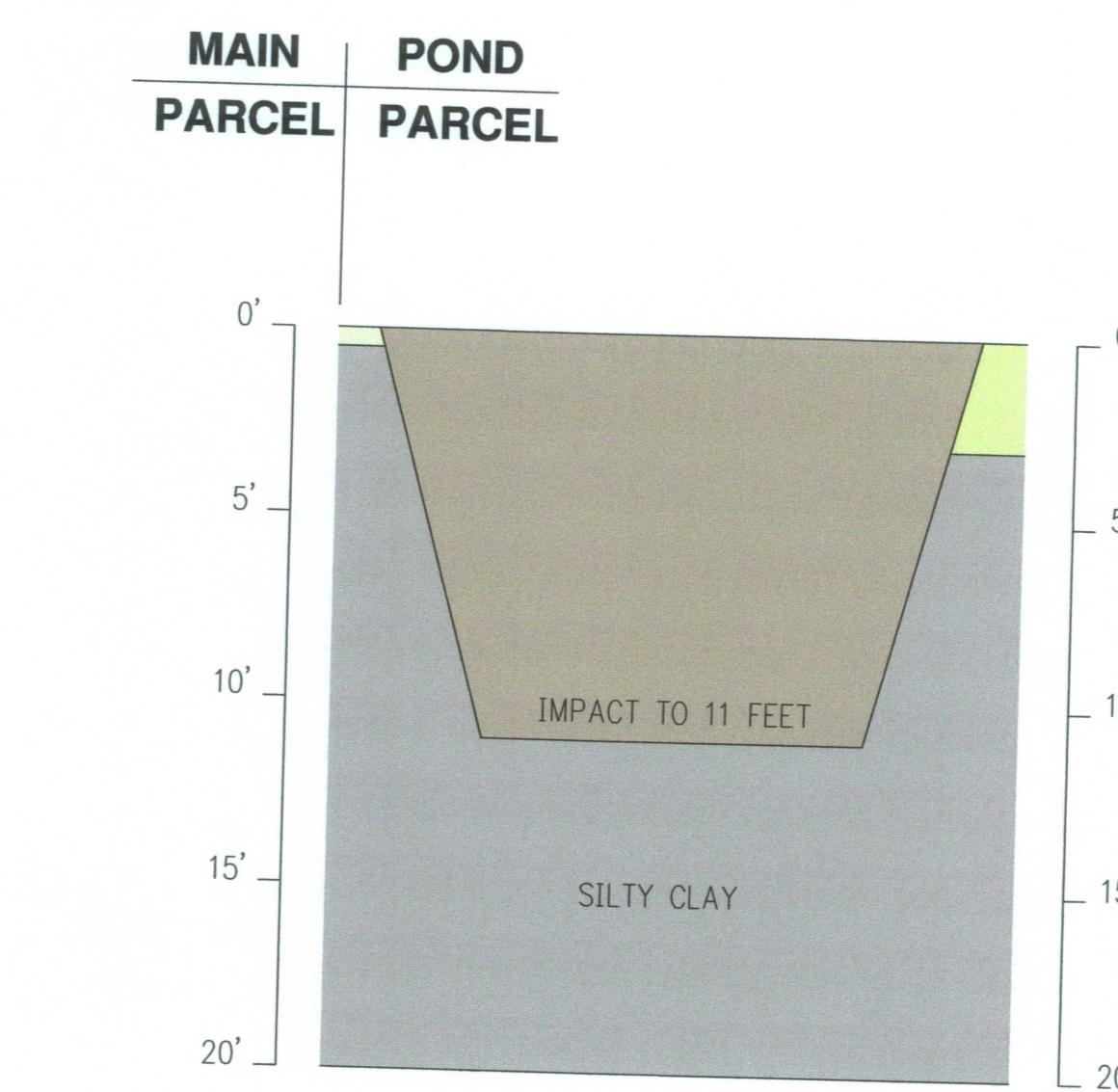
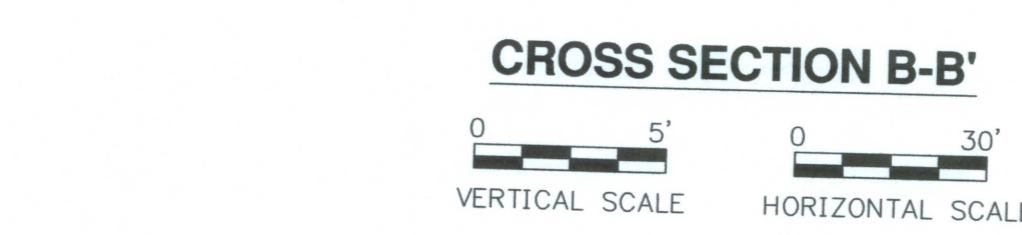
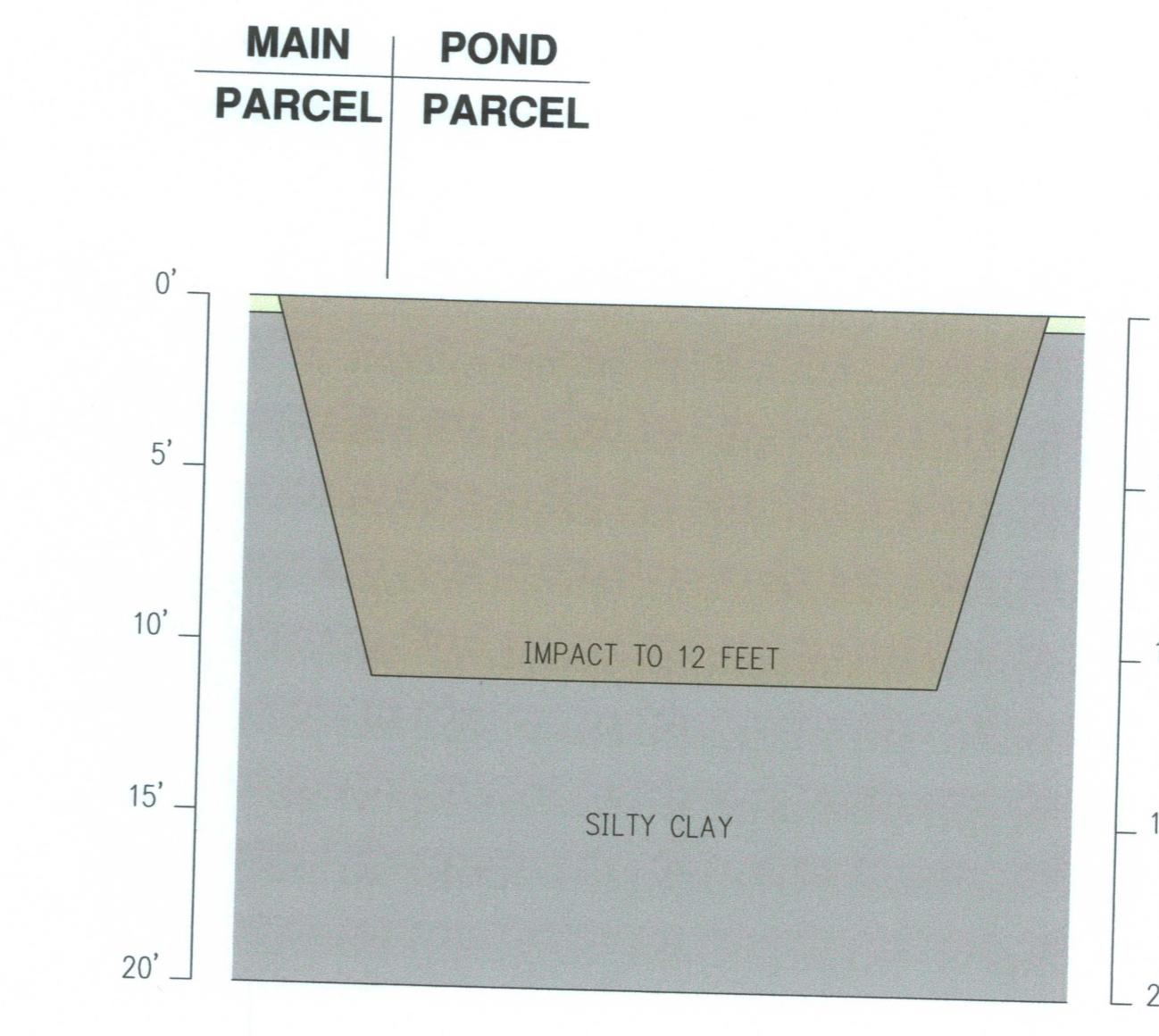


FIGURE 3
SURROUNDING AREA MAP
ROGERS PARK - POND PARCEL
6659 N. KEDZIE AVENUE



THE PEOPLES GAS
LIGHT AND COKE COMPANY
CHICAGO, ILLINOIS

					
date	8-13-01				
designed	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: right;">detailed</td> <td style="width: 50%; text-align: right;">GA</td> </tr> <tr> <td colspan="2" style="text-align: right; vertical-align: bottom;">checked</td> </tr> </table>	detailed	GA	checked	
detailed	GA				
checked					

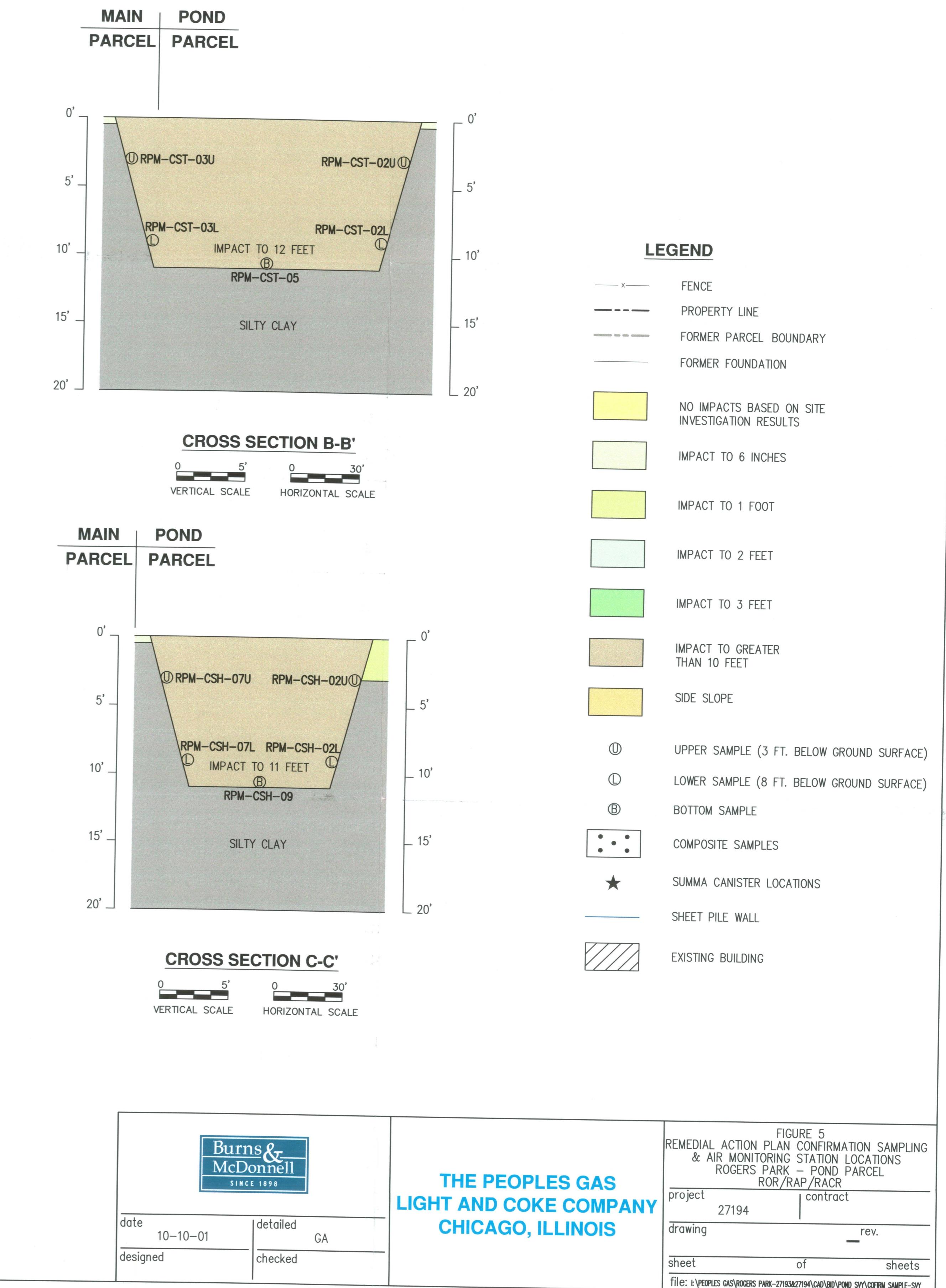


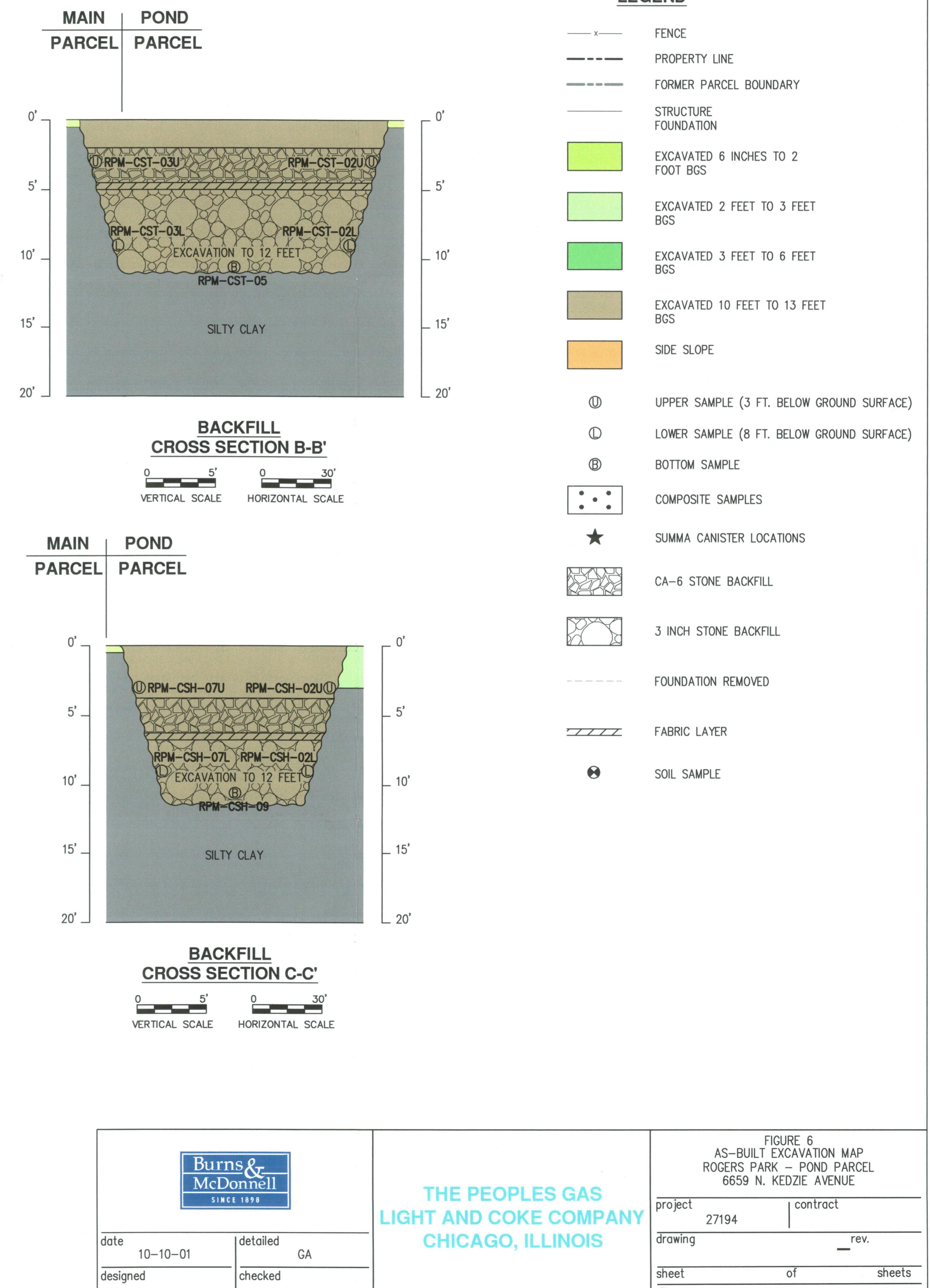
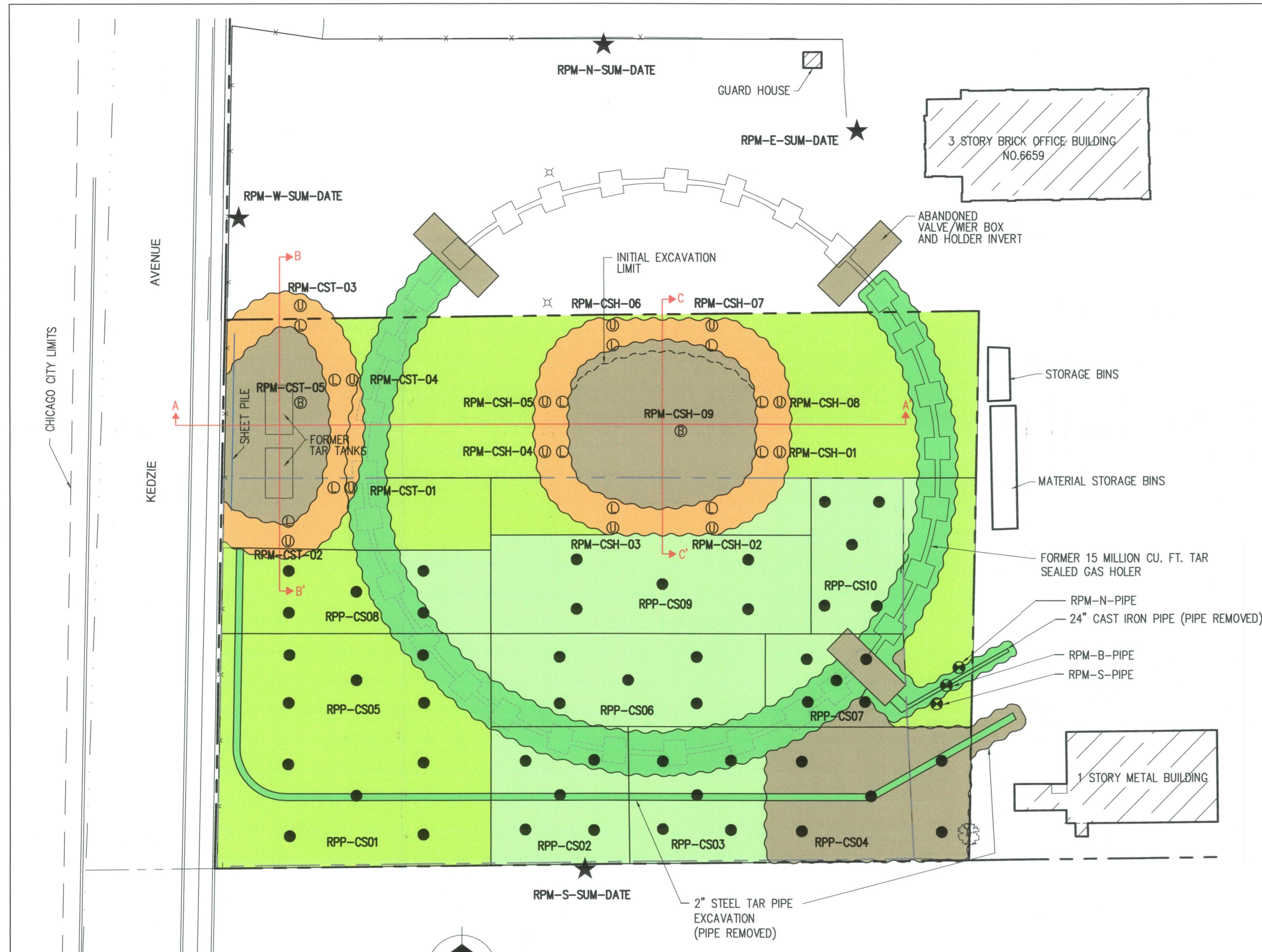
NOTE: EXCAVATION PLAN DEVELOPED BASED ON THE RESULTS OF THE SITE INVESTIGATION. IMPACT MEANS SOIL THAT EXCEEDS TACO TIER 1 RESIDENTIAL REMEDIATION OBJECTIVES

The logo for Burns & McDonnell is centered. It features the company name 'Burns & McDonnell' in a serif font, with '&' in a larger script. Below the name is a horizontal line, followed by the text 'SINCE 1898' in a smaller serif font.

date	10-10-01	detailed	GA
designed		checked	

THE PEOPLES GAS LIGHT AND COKE COMPANY CHICAGO, ILLINOIS





**APPENDIX A
PHOTO LOG**



Peoples Gas Rogers Park Site
6-25-01

View of the former gas holder concrete foundation when it was first uncovered.



Peoples Gas Rogers Park Site
6-25-01

View from the south of the employee parking lot with the excavated pond parcel in the foreground.



Peoples Gas Rogers Park Site
6-25-01

View from the east. Exposing the
gas holder concrete foundation.



Peoples Gas Rogers Park Site
6-25-01

A portion of the southeast
valve/wier box when first
uncovered.



Peoples Gas Rogers Park Site
6-26-01

View from the east of the exposed gas holder concrete foundation.



Peoples Gas Rogers Park Site
6-26-01

View from the northeast. Trucks being loaded with special waste for transport to CID.



Peoples Gas Rogers Park Site
7-20-01

View of the west fence bordering Kedzie Avenue. Preparing area for driving sheet piling by removing asphalt and marking all gas lines.



Peoples Gas Rogers Park Site
7-24-01

View of the western fence with Kedzie Avenue behind. Driving in the sheet piling to facilitate deeper excavation in the area of the former tar tanks.



Peoples Gas Rogers Park Site
7-25-01

View of the west fence after the sheet piling has been completely driven down to 20 feet below ground surface. The fence is being reinstalled.



Peoples Gas Rogers Park Site
7-26-01

View of the west fence with Kedzie Avenue behind. Drilling in order to install the inclinometer, required by the City of Chicago as part of structural monitoring.



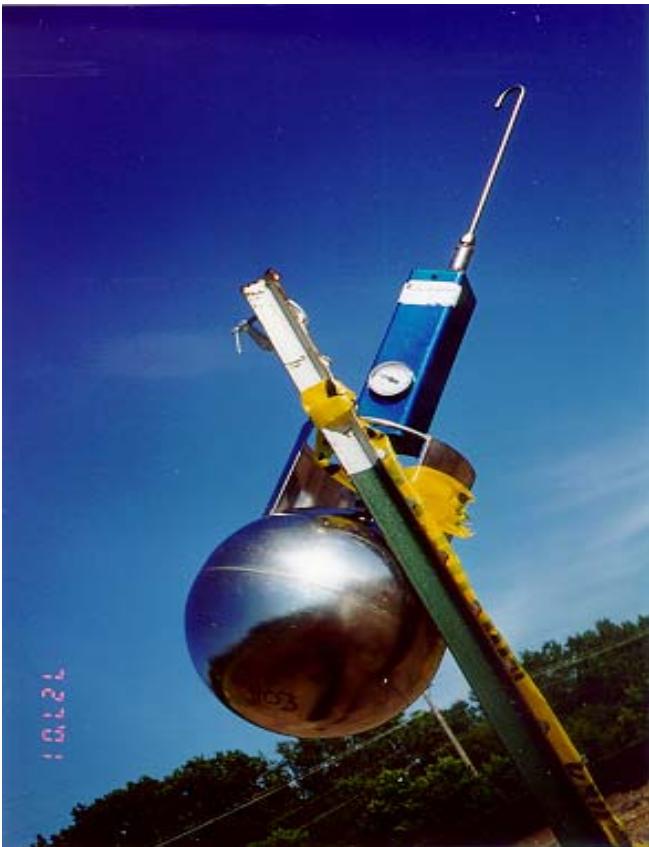
Peoples Gas Rogers Park Site
7-27-01

View of the Pond Parcel from the northeast. Beginning the excavation of the center of the former gas holder area.



Peoples Gas Rogers Park Site
7-27-01

A portion of the Pond Parcel viewed from the east. Pre-excavation with the frac tank in place. Sheet piling not visible, yet in place near the west fence with Kedzie Avenue just beyond. Black fabric in place.



Peoples Gas Rogers Park Site
7-27-01

Close-up view of the Summa Canister at the south station. Notice the blue 10-hour flow controller and the sampling cane (usually only used on rainy days) attached to the filter.



Peoples Gas Rogers Park Site
8-02-01

View from the south. Excavation of former tar tank area with sheet piling exposed to the west and a portion of the concrete saddle exposed to the east. No tanks were present in the saddles.



Peoples Gas Rogers Park Site
8-04-01

View of the former tar tank area excavation on the west side of the property. Backfilling against the sheet piling.



Peoples Gas Rogers Park Site
8-04-01

View from the east. Waste from the gas holder excavation covered with plastic to keep in all odors and to protect until the next morning for offsite disposal.



Peoples Gas Rogers Park Site
8-04-01

View of the saddle on the west side of the property. Concrete saddles that were used to hold the tar tanks were found during excavation.



Peoples Gas Rogers Park Site
8-07-01

View of the Pond Parcel from the northeast. Gas holder excavation nearing completion with fill waiting to be pushed into the hole.



Peoples Gas Rogers Park Site
8-09-01

Truck fully lined and ready to be loaded with waste.



Peoples Gas Rogers Park Site
8-09-01

View from the south. Parking lot watered to control dust from the truck traffic.



Peoples Gas Rogers Park Site
8-9-01

Taking readings on the inclinometer located outside the property between the western fence and the sidewalk bordering Kedzie Avenue.



Peoples Gas Rogers Park Site
8-9-01

View from the south of the gas holder excavation.



Peoples Gas Rogers Park Site
8-13-01

View from the south along the west fence of the 2 inch pipe containing tar excavated and removed. This pipe continued to the south boundary of the Pond Parcel where it turned and headed straight east. This pipe and surrounding impacted soils were completely excavated and removed from the Pond Parcel.



Peoples Gas Rogers Park Site
8-13-01

View from the northeast. Gas holder excavation being backfilled.



Peoples Gas Rogers Park Site
8-14-01

Taking readings with both the dust monitor and the PID along the northern edge of the gas holder excavation.



Peoples Gas Rogers Park Site
8-14-01

View from the south of the gas holder excavation. The south summa canister station in front of a concrete pad found on the outside perimeter of the gas holder wall.



Peoples Gas Rogers Park Site
8-15-01

View from the west. Backfilling the gas holder excavation. Black fabric in place between 3" crushed concrete and smaller crushed concrete.



Peoples Gas Rogers Park Site
8-15-01

Beginning the excavation of the northwest valve and weir box.



Peoples Gas Rogers Park Site
8-21-01

A roll-off box used for disposal of the valve/wier box waste.



Peoples Gas Rogers Park Site
8-15-01

View from the south. The liquid contents of the northwest valve /weir box being extracted by SET Environmental into tanker truck.



Peoples Gas Rogers Park Site
8-27-01

Contents of the northwest valve and wier box being broken up for removal. This configuration was typical for all three valve/wier structures.



Peoples Gas Rogers Park Site
8-29-01

Preparing the contents of the southeast valve box for direct loading into roll-off boxes.



Peoples Gas Rogers Park Site
8-29-01

Breaking up the west portion of the gas holder concrete foundation.



Peoples Gas Rogers Park Site
8-30-01

SET Environmental high pressure washing the interior of the valve/wier box after sludge liquid and pipe removal.



Peoples Gas Rogers Park Site
8-30-01

View from the south. Backfilling the southeast valve/wier box.



Peoples Gas Rogers Park Site
8-31-01

View from the northeast. The cast iron scrap pieces from the valve/wier boxes cleaned and waiting on plastic to be taken off the site by scrap recycler.



Peoples Gas Rogers Park Site
9-5-01

The northwest valve/wier box decontaminated and being backfilled.



Peoples Gas Rogers Park Site
9-18-01

View from the north. Excavating along side the gas holder concrete foundation to ensure that all visible coal tar patches are removed.



Peoples Gas Rogers Park Site
9-26-01

View from the west of the excavation in the southeast corner of the Pond Parcel where seams of coal tar were excavated.



Peoples Gas Rogers Park Site
10-4-01

View from the northeast of the site after backfill is nearly complete.



Peoples Gas Rogers Park Site
10-4-01

View from the northeast of the completed site with South Parcel behind.

APPENDIX B
WASTE CHARACTERIZATION ANALYTICAL RESULTS AND WASTE
PROFILE DOCUMENTATION

TestAmerica

INCORPORATED

Ms. Margaret Kelley
BURNS & MCDONNELL
2601 West 22nd Street
Oakbrook, IL 60523

04/27/2001

Job Number: 01.03541

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: #27193-3.06, Rogers Park South/Chicago

Sample Number	Sample Description	Date Taken	Date Received
625032	RPS-WC1	04/23/2001	04/23/2001

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Project Manager

TestAmerica

INCORPORATED

ANALYTICAL REPORT

Ms. Margaret Kelley
 BURNS & MCDONNELL
 2601 West 22nd Street
 Oakbrook, IL 60523

04/27/2001

Sample No. : 625032

Job No.: 01.03541

Sample Description: RPS-WC1
 #27193-3.06; Rogers Park South/Chicago

Date Taken: 04/23/2001
 Time Taken: 14:00
 IEPA Cert. No. 100221

Date Received: 04/23/2001
 Time Received: 16:45
 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Time Analyzed	Reporting Limit	Analyst	Batch No.	Prep/Run	Analytical Method
ASTM-pH	8.31		units	04/27/2001		0.10	dat	34		ASTM D3987-85
ASTM Preparation	Complete			04/24/2001			reh	70		ASTM D3987-85
ASTM-COD	<20		mg/L	04/26/2001		20	kmb	23		SM 5220
ASTM-Cyanide	<0.005		mg/L	04/27/2001		0.005	dat	70		
Flashpoint	>200		Degree F	04/27/2001		72	cdp	757		SW 1010
ASTM-Ammonia	<0.50		mg/L	04/25/2001		0.50	kmb	33		EPA 350.1
ASTM-Oxidizer Screen	no reaction			04/27/2001		NA	pbk	70	4	ASTM 4981-89
Paint Filter Test	pass			04/27/2001		NA	pbk	626		SW 9095A
pH, Non-Aqueous	8.08		units	04/27/2001		0.10	cdp	489		SW 9045B
Solids, Total	78.2		%	04/26/2001		0.1	cdp	3934		SM 2540
TCLP Metals Extraction	Leached			04/24/2001			reh	1394		SW 1311
TCLP-Arsenic, ICP	<0.20		mg/L	04/26/2001		0.20	aks	3694 5711		SW 6010B
TCLP-Barium, ICP	0.402		mg/L	04/26/2001		0.020	aks	3694 5713		SW 6010B
TCLP-Cadmium, ICP	<0.010		mg/L	04/26/2001		0.010	aks	3694 6598		SW 6010B
TCLP-Chromium, ICP	<0.040		mg/L	04/26/2001		0.040	aks	3694 5702		SW 6010B
TCLP-Lead, ICP	<0.200		mg/L	04/26/2001		0.200	aks	3694 5906		SW 6010B
TCLP-Mercury, CVAA	<0.0002		mg/L	04/26/2001		0.0002	efw?	1750 1548		SW 7470A
TCLP-Selenium, ICP	<0.20		mg/L	04/26/2001		0.20	aks	3694 5517		SW 6010B
TCLP-Silver, ICP	<0.050		mg/L	04/26/2001		0.050	aks	3694 5921		SW 6010B
TCLP Organic Prep	Leached			04/24/2001			reh	737		SW 1311
Prep PCBs 8082 NonAqueous	extracted			04/24/2001			jjh	700		SW 3550B
PCBs 8082 NonAqueous										
PCB-1016	<320		ug/kg dw	04/24/2001		320	skb	700	204	SW 8082
PCB-1221	<320		ug/kg dw	04/24/2001		320	skb	700	204	SW 8082
PCB-1232	<320		ug/kg dw	04/24/2001		320	skb	700	204	SW 8082
PCB-1242	<320		ug/kg dw	04/24/2001		320	skb	700	204	SW 8082

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ANALYTICAL REPORT

Ms. Margaret Kelley
 BURNS & MCDONNELL
 2601 West 22nd Street
 Oakbrook, IL 60523

04/27/2001

Sample No.: 625032

Job No.: 01.03541

Sample Description: RPS-WC1
 #27193-3.06; Rogers Park South/Chicago

Date Taken: 04/23/2001
 Time Taken: 14:00
 IEPA Cert. No. 100221

Date Received: 04/23/2001
 Time Received: 16:45
 WDNR Cert. No. 999447130

Parameter	Result	Flag	Units	Date Analyzed	Time Analyzed	Reporting Limit	Analyst	Batch No.	Prep/Run	Analytical Method
PCB-1248	<320		ug/kg dw	04/24/2001		320	skb	700	204	SW 8082
PCB-1254	<320		ug/kg dw	04/24/2001		320	skb	700	204	SW 8082
PCB-1260	<320		ug/kg dw	04/24/2001		320	skb	700	204	SW 8082
Surr: Tetrachloroethylene (TCX)	108.0	%		04/24/2001		51-135	skb	700	204	SW 8082
Surr: Decachlorobiphenyl (DCB)	123.0	%		04/24/2001		55-123	skb	700	204	SW 8082
Prep: BNA Extract (TCLP)	extracted			04/26/2001			msr	950		SW 3510C
TCLP BASE NEUTRAL COMPOUNDS										
TCLP-Hexachlorobenzene	<0.10		mg/L	04/27/2001		0.10	dap	737	1898	SW 8270C
TCLP-Pyridine	<0.10		mg/L	04/27/2001		0.10	dap	737	1898	SW 8270C
Surr: Nitrobenzene-d5	63.0	%		04/27/2001		27-118	dap	737	1898	SW 8270C
Surr: 2-Fluorobiphenyl	62.0	%		04/27/2001		29-109	dap	737	1898	SW 8270C
Surr: Terphenyl-d14	68.0	%		04/27/2001		31-123	dap	737	1898	SW 8270C
ASTM-Oil & Grease	11	mg/L		04/26/2001		5.0	dmc	20	EPA 413.1	
Reactive Sulfide	<10	R1R3R4	mg/kg	04/26/2001		1.0	mas	962		SW 7.3/9034

R1R3R4: USEPA RL for this analyte is 500mg/Kg.

Results below the USEPA RL(s) are for informational purposes only.

USEPA Methods Information and Communication Exchange.

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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

BURNS & MCDONNELL
2601 West 22nd Street
Oakbrook, IL 60523

04/27/2001

Job Number: 01.03541

Ms. Margaret Kelley

Analyte	Run Batch Number	CCV True Conc.	Conc. Found	Percent Recovery
ASTM-Cyanide	70	0.115	0.122	106.1
ASTM-Cyanide	70	0.115	0.122	106.1
ASTM-Cyanide	70	0.115	0.112	97.4
ASTM-Ammonia	33	15.0	14.2	94.7
ASTM-Ammonia	33	15.0	14.7	98.0
ASTM-Ammonia	33	5.00	5.13	102.6
ASTM-Ammonia	33	5.00	4.99	99.8
pH, Non-Aqueous	489	7.00	7.07	101.0
TCLP-Arsenic, ICP	5711	2.00	2.03	101.5
TCLP-Barium, ICP	5713	2.00	1.96	98.0
TCLP-Cadmium, ICP	6598	1.00	0.969	96.9
TCLP-Chromium, ICP	5702	2.00	1.96	98.0
TCLP-Lead, ICP	5906	2.00	1.96	98.0
TCLP-Mercury, CVAA	1548	0.0025	0.00262	104.8
TCLP-Selenium, ICP	5517	2.00	1.95	97.5
PCBs 8082 NonAqueous				
PCB-1016	204	250	268	107.2
PCB-1260	204	250	270	108.0
PCBs 8082 NonAqueous				
PCB-1016	204	750	740	98.7
PCB-1260	204	750	776	103.5
Reactive Sulfide	962	390	400	102.6

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QUALITY CONTROL REPORT

BLANK ANALYSIS

BURNS & MCDONNELL
2601 West 22nd Street
Oakbrook, IL 60523

04/27/2001

Job Number: 01.03541

Ms. Margaret Kelley

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Reporting Units	Analytical Limit	Method
ASTM-COD		23	<20	mg/L	20	SM 5220
ASTM-Cyanide		70	<0.005	mg/L	0.005	
Flashpoint		757	<72	Degre	72	SW 1010
ASTM-Ammonia		33	<0.50	mg/L	0.50	EPA 350.1
ASTM-Ammonia		33	<0.50	mg/L	0.50-	EPA 350.1
Solids, Total		3934	<0.1	%	0.1	SM 2540
TCLP Metals Extraction		1394	extracte			SW 1311
TCLP-Arsenic, ICP	3694	5711	<0.20	mg/L	0.20	SW 6010B
TCLP-Barium, ICP	3694	5713	<0.020	mg/L	0.020	SW 6010B
TCLP-Cadmium, ICP	3694	6598	<0.010	mg/L	0.010	SW 6010B
TCLP-Chromium, ICP	3694	5702	<0.040	mg/L	0.040	SW 6010B
TCLP-Lead, ICP	3694	5906	<0.200	mg/L	0.200	SW 6010B
TCLP-Mercury, CVAA	1750	1548.	<0.0002	mg/L	0.0002	SW 7470A
TCLP-Selenium, ICP	3694	5517	<0.20	mg/L	0.20	SW 6010B
TCLP-Silver, ICP	3694	5921	<0.050	mg/L	0.050	SW 6010B
PCBs 8082 NonAqueous						SW 8082
PCB-1016	700	204	<250	ug/Kg	250	SW 8082
PCB-1221	700	204	<250	ug/Kg	250	SW 8082
PCB-1232	700	204	<250	ug/Kg	250	SW 8082
PCB-1242	700	204	<250	ug/Kg	250	SW 8082
PCB-1248	700	204	<250	ug/Kg	250	SW 8082
PCB-1254	700	204	<250	ug/Kg	250	SW 8082
PCB-1260	700	204	<250	ug/Kg	250	SW 8082
Sur: Tetrachloroxylene (TCX)	700	204	106.0	%	51-135	SW 8082
Sur: Decachlorobiphenyl (DCB)	700	204	119.0	%	55-123	SW 8082
TCLP BASE NEUTRAL COMPOUNDS						SW 8270C
TCLP-Hexachlorobenzene	737	1676	<0.10	mg/L	0.10	SW 8270C
TCLP-Pyridine	737	1676	<0.10	mg/L	0.10	SW 8270C
Sur: Nitrobenzene-d5	737	1676	68.0	%	35-114	SW 8270C

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QUALITY CONTROL REPORT

BLANK ANALYSIS

BURNS & MCDONNELL
2601 West 22nd Street
Oakbrook, IL 60523

04/27/2001

Job Number: 01.03541

Ms. Margaret Kelley

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis Results	Reporting Units	Analytical Limit	Analytical Method
Surr: 2-Fluorobiphenyl	737	1676	69.0	%	43-116	SW 8270C
Surr: Terphenyl-d14	737	1676	70.0	%	33-141	SW 8270C
ASTM-Oil & Grease		20	<5	mg/L	5.0	EPA 413.1
Reactive Sulfide		962	210	mg/kg	10	SW 7.3/9034

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QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

BURNS & MCDONNELL
2601 West 22nd Street
Oakbrook, IL 60523

04/27/2001

Job Number: 01.03541

Ms. Margaret Kelley

Analyte	Prep Batch Number	Run Batch Number	True Conc.	Conc. Found	LCS % Recovery
ASTM-COD		23	25	27	108.0
ASTM-COD		23	100	96	96.0
ASTM-Cyanide		70	0.191	0.192	100.5
ASTM-Cyanide		70	0.048	0.045	93.8
ASTM-Ammonia		33	15.0	16.0	106.7
ASTM-Ammonia		33	5.00	5.05	101.0
ASTM-Ammonia		33	15.0	15.6	104.0
ASTM-Ammonia		33	5.00	5.05	101.0
TCLP-Arsenic, ICP	3694	5711	0.500	0.527	105.4
TCLP-Barium, ICP	3694	5713	0.500	0.507	101.4
TCLP-Cadmium, ICP	3694	6598	0.500	0.500	100.0
TCLP-Chromium, ICP	3694	5702	0.500	0.505	101.0
TCLP-Lead, ICP	3694	5906	0.500	0.509	101.8
TCLP-Mercury, CVAA	1750	1548	0.0025	0.00266	106.4
TCLP-Selenium, ICP	3694	5517	0.500	0.508	101.6
TCLP-Silver, ICP	3694	5921	0.500	0.494	98.8
PCBs 8082 NonAqueous					
PCB-1016	700	204	2500	2987	119.5
PCB-1260	700	204	2500	2933	117.3
Surr: Tetrachloroxylene (TCX)	700	204	100	120	120.0
Surr: Decachlorobiphenyl (DCB)	700	204	100	136	SURROU 136.0
TCLP BASE NEUTRAL COMPOUNDS					
TCLP-Hexachlorobenzene	737	1676	80	63	78.8
TCLP-Pyridine	737	1676	80	38	47.5
Surr: Nitrobenzene-d5	737	1676	100	74	74.0
Surr: 2-Fluorobiphenyl	737	1676	100	70	70.0
Surr: Terphenyl-d14	737	1676	100	75	75.0
ASTM-Oil & Grease		20	100	98	98.0
Reactive Sulfide		962	390	34	8.7

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QUALITY CONTROL REPORT MATRIX SPIKE/MATRIX SPIKE DUPLICATE

04/27/2001

Ms. Margaret Kelley
BURNS & MCDONNELL
2601 West 22nd Street
Oakbrook, IL 60523

Job No: 01.03541

Job Description: #27193-3.06; Rogers Park South/Chicago

Analyte	Prep	Run		Matrix		MS	MSD			
	Batch	Batch	Sample	Spike	Spike	MSD	Percent	Percent		Sample
	Number	Number	Result	Amount	Units	Result	Result	Recovery	Recovery	RPD
ASTM-COD		23	<20	25	mg/L	27	26	108.0	104.0	3.8
TCLP Metals Extraction		1394	Leached							625059
TCLP-Barium, ICP	3694	5713	2.13	0.500	mg/L	2.51	2.55	76.0	84.0	1.6
TCLP-Chromium, ICP	3694	5702	<0.040	0.500	mg/L	0.446	0.454	89.2	90.8	1.8
TCLP-Mercury, CVAA	1750	1548	<0.0002	0.0025	mg/L	0.00299	0.0029	119.6	116.4	2.7
TCLP-Mercury, CVAA	1750	1548	<0.0002	0.0025	mg/L	0.00294	0.0029	117.6	116.4	1.0
TCLP-Silver, ICP	3694	5921	<0.050	0.500	mg/L	0.447	0.452	89.4	90.4	1.1
CBs 8082 NonAqueous										625032
PCB-1016	700	204	<250	2475	ug/kg	3075	3045	124.2	123.0	1.0
PCB-1250	700	204	<250	2475	ug/kg	2902	2890	117.3	116.8	0.4
Surr: Tetrachloroxylene	700	204	108	100	ug/L	116	115	116.0	116.0	0.0
Surr: Decachlorobiphenyl	700	204	123	100	ug/L	134	132	134.0	132.0	1.5
Reactive Sulfide		962	<10	390	mg/kg	25	23	6.4	5.9	8.3
										625191

NOTE: Matrix Spike Samples may not be samples from this job.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.

MSI = Matrix Spike Level Insignificant (<25%) compared to background level.

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QUALITY CONTROL REPORT

DUPPLICATES

BURNS & MCDONNELL
2601 West 22nd Street
Oakbrook, IL 60523

04/27/2001

Job Number: 01.03541

Ms. Margaret Kelley

Analyte	Prep	Run			RPD
	Batch	Batch	Original	Duplicate	
Flashpoint		757	>200	>200	Degree
ASTM-Oxidizer Screen	70	4	no react	no react	
Paint Filter Test		626	pass	pass	
Solids, Total		3934	80.8	80.8	% 0.0

NOTE: Spikes and Duplicates may not be samples from this job.

RPD - Relative Percent Difference

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Ms. Margaret Kelley
BURNS & MCDONNELL
2601 West 22nd Street
Oakbrook, IL 60523

04/27/2001

Job Number: 01.03541

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130

Project Description: #27193-3.06; Rogers Park South/Chicago

CASE NARRATIVE

No analytical exceptions were noted outside of routine method protocols.

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KEY TO ABBREVIATIONS and METHOD REFERENCES

- : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- N/S : No coliform bacteria were present and the opinion is satisfactory.
- P/U : Coliform bacteria were present and the opinion is unsatisfactory.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr. : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- Method References**
- ASTM "American Society for Testing Materials"
- EPA "Methods for Chemical Analysis of Water and Wastes", USEPA, EPA 600/4-79-020, Revised March 1983.
- EPA "Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA 600/4-82-057, July 1982.
- SDWA "Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", USEPA, September 1986.
- SDWA "Methods for the Determination of Metals in Environmental Samples", Supplement I USEPA, EPA-600/R-94/111, May 1994.
- SM "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WPCF, 18th Edition.
- SW "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", USEPA, SW-846.

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ATTACHMENT: CHAIN OF CUSTODY

Following are the chain of custody documents associated with the samples pertaining to this report.

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 Tel: 312.733.0551 Fax: 312.733.2386
e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0.

May 14, 2001

Margaret Kelly
Burns & McDonnell
2601 W. 22nd Street
Oak Brook, Illinois 60523-1229
Phone: (630) 990-0300
Fax: (630) 990-0301

Re: Project Number/Name: 27194-4.07, Peoples-Rogers Park Main & East
STAT Project Number: 701818 STAT Sample No.: 917057
Date Received: May 3, 2001

Dear Ms. Kelly:

Enclosed are the analytical results for the above referenced project. The sample was analyzed as per the enclosed chain of custody.

All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 3rd Edition, December, 1996. Specific method references are listed on the analytical report.

All analyses were performed within the established holding times, and all quality control criteria, as outlined in the method have been met. QA/QC documentation and raw data will remain on file for future reference.

Thank you for the opportunity to serve you and we look forward to working with you in the future. If you have any questions about the enclosed materials, please call me at 312-733-0551.

Sincerely,



Craig Chawla
Project Manager

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP &

Analytical Report

Client:	Burns & McDonnell		
Project ID:	27194-4.07, Peoples-Rogers Park Main & East	Date Received:	5/3/01
Sample Number:	1, RPM-SB61-005	Date Taken:	5/2/01
STAT Project No.:	701818	Time Taken:	1330
STAT Sample No.:	917057	Date Reported:	5/14/01

Analyte	Result	Units
---------	--------	-------

TCLP Volatile Organic Compounds Method 1311/8260B

Analysis Date: 5/9/01

Benzene	3.79	mg/L
2-Butanone	< 0.050	mg/L
Carbon tetrachloride	< 0.100	mg/L
Chlorobenzene	< 0.050	mg/L
Chloroform	< 0.050	mg/L
1,2-Dichloroethane	< 0.050	mg/L
1,1-Dichloroethene	< 0.050	mg/L
Tetrachloroethene	< 0.050	mg/L
Trichloroethene	< 0.050	mg/L
Vinyl Chloride	< 0.100	mg/L

TCLP Base-Neutral/Acid Compounds Method 1311/8270C

Preparation Date: 5/4/01

Analysis Date: 5/4/01

1,4-Dichlorobenzene	< 0.100	mg/L
2,4-Dinitrotoluene	< 0.100	mg/L
Hexachlorobenzene	< 0.100	mg/L
Hexachlorobutadiene	< 0.100	mg/L
Hexachloroethane	< 0.100	mg/L
o-Cresol	< 0.100	mg/L
m&p-Cresol	< 0.100	mg/L
Nitrobenzene	< 0.100	mg/L
Pentachlorophenol	< 0.500	mg/L
Pyridine	< 0.500	mg/L
2,4,5-Trichlorophenol	< 0.100	mg/L
2,4,6-Trichlorophenol	< 0.100	mg/L

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP® &**Analytical Report**

Client: Burns & McDonnell

Project ID: 27194-4.07, Peoples-Rogers Park Main & East

Date Received: 5/3/01

Sample Number: 1, RPM-SB61-005

Date Taken: 5/2/01

STAT Project No.: 701818

Time Taken: 1330

STAT Sample No.: 917057

Date Reported: 5/14/01

Analyte	Result	Units	Date Analyzed	Method
Total Solids	82.61	%	5/7/01	160.3
Ash Content	79.74	%	5/8/01	160.4
Flash Point (Open Cup)	No Flash @	212 °F	5/3/01	1010M
pH @ 25°C, 1:10	8.71	units	5/3/01	9045C
Paint Filter	Liquid Not Present		5/3/01	9095
Phenol	1.60	mg/Kg	5/7/01	9065
Cyanide, Total	<0.25	mg/Kg	5/4/01	9010B/9014
Sulfide, Reactive	<10	mg/Kg	5/9/01	7.3.4.2
Water Reactivity	None		5/3/01	ASTM D5058-C
EOX	80	mg/Kg	5/7/01	9023

TCLP Metals

Arsenic	<0.010	mg/L	5/4/01	1311/6020
Barium	1.29	mg/L	5/4/01	1311/6020
Cadmium	<0.010	mg/L	5/4/01	1311/6020
Chromium	<0.010	mg/L	5/4/01	1311/6020
Lead	0.052	mg/L	5/4/01	1311/6020
Mercury	<0.0005	mg/L	5/9/01	1311/7470A
Selenium	<0.010	mg/L	5/4/01	1311/6020
Silver	<0.010	mg/L	5/4/01	1311/6020

STAT A lysis Corporation

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0



NVLAP®

No: 701818

Page : 1 of 1

CHAIN OF CUSTODY RECORD

Client Name: Burns & McDonnell

Project Number: 27194-4.07

Project Name: Peoples- Rogers Park Main + East

Location/Address: 10459 Kedzie, Chicago, IL

Samplers: Libby Northrip / Daria Prawiacki

Client Sample No.: Sample Description Date Taken Time Taken Comp Grab No. of Containers

1 RPM-SBL1-005

5/20/13 30

X

5

7-91 917057

TYPE OF ANALYSES											
TCLP VOC SVOC	SUVO	SVOC									
TCLP METAL	METAL	METAL	METAL	METAL	METAL	METAL	METAL	METAL	METAL	METAL	METAL
LEAD											
CHLOROPHYL											
PCP											
PCP POINT											
PCP COUNT											
PCP TOTAL											
PCP SULFIDE											
PCP CONT											
PCP CYANIDE											
PCP TOTAL CYANIDE											
PCP TOTAL REACTIVITY											

Turnaround Time:
7 (days)

Results Needed:

5/14/01 am/pm
 Remarks Lab No.

Relinquished by: (Signature)	<i>Libby Northrip</i>	Date/Time: 5/3/01 09:50	Lab. Used:	Sample Verification:	Contact Information:
Received by: (Signature)	<i>Libby Northrip</i>	Date/Time: 5/3/01 09:50	- Container OK:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Phone Number: (312) 440-0300
Relinquished by: (Signature)	<i>Libby Northrip</i>	Date/Time:	- Samples Leaking:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Fax Number: (312) 440-0301
Received for lab by: (Signature)	<i>Libby Northrip</i>	Date/Time: 5/3/01 11:05	- Refrigerated (Temp): 5 °C	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Attention: M. Kelley
Relinquished by: (Signature)		Date/Time:	Sample Labels Match Sample ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Contact: Libby Northrip



HERITAGE ENVIRONMENTAL SERVICES, LLC
WASTESTREAM SURVEY FORM
(877)436-8778
Heritage Form HERWS01

Heritage Use Only	
Quote #	Approval Fee
Wst#	P.O.
Sample #	Heritage Contact

Preferred Service Location:

Indianapolis, IN Charlotte, NC Kansas City, MO Lemont, IL Coolidge, AZ Williston, VT Caldwell, TX
 Heritage Hazardous Landfill (Roachdale, IN) Heritage Non-Hazardous Landfill (Roachdale, IN) Toledo, OH

1. GENERATOR INFORMATION

Heritage Generator Number (if known)

Generator Name Peoples Gas Light and Coke

Address 6659 N. Kedzie Avenue

City, State, Zip Chicago, Illinois 60645

Tech. Contact Alison Millerick

Phone 312-240-4832 Fax 312-240-4765

E-mail a.millerick@pecorp.com

US EPA ID ILD984870139

State ID Numbers 0316025027

Generator Status

LQG SQG CESQG Non-hazardous**2. BILLING INFORMATION**Quote to: Generator Customer Other

Customer Peoples Gas Light & Coke

Address 130 East Randolph Street, 20th Floor

City, State, Zip Chicago, Illinois 60601

Contact Name Alison Millerick

Phone 312-240-4832 Fax 312-240-4765

E-mail

3. MANIFEST MAIL ADDRESS Generator Billing

Contact Name Alison Millerick

Company Peoples Gas Light and Coke

Address 130 East Randolph Street, 20th Floor

City, State, Zip Chicago, Illinois 60601

4. SIC Code wastestream was generated under (If code is 2911, 28—, or 3312 complete form HERWS03)

5. Common Name Manufactured Gas Plant (MGP) Waste

6. Process Generating Waste Excavation of Impacted Soil

7. DOT Description (if available) RQ, Environmentally Hazardous Substances, Solid, N.O.S., 9, UN3077, PGIII, (D018)(Benzene)

8. Chemical Composition: Using specific chemical names, list all constituents present in the wastestream. Attach available analyses or MSDSs. Remember to identify Form R/TRI Toxic Chemicals. **Total composition must equal or exceed 100%.**

Constituent	Range	Units
TCLP Benzene	3.79	mg/L
Soil		%
Coal Tar		%

9. Identify US EPA waste codes D018

10. US EPA Form Code US EPA Source Code

11. Identify state waste codes None

12. Color Brown Appearance Soil Odor Coal Tar/Soil

13. %Solids 100 %Liquids

14. Physical State at 70 °F Solid Liquid Sludge Semi-solid Powder Gas
 If solid, are there free liquids? Yes No (If no, will waste dump from the drum? Yes No
 Is the wastestream pumpable? Yes No

15. pH or pH range (If wastestream is solid, give pH of 10% slurry): 7

Flash Point: <100°F 100-140°F 141-200°F >200°F Boiling Point: <100°F >100°F Fuel Value (Btu/lb): <2000 2000-6000 6000-10,000 > 10,000 16. Is the waste generated from or associated with metal finishing or other plating activities? Yes No

Common Name (same as Item #5):

17. If the waste is federally hazardous, is this waste subject to Subpart CC regulation at 40 CFR 265.1080-1091 (i.e. contains 3500 ppm VOCs)? Yes No NA
18. Does this material meet the definition of a used oil (40 CFR 279)? Yes No If yes, has the waste been mixed with hazardous waste? Yes No
19. Does the wastestream contain asbestos? Yes No If Yes, is the asbestos friable? Yes No
 Does the wastestream contain human sanitary, biological, or infectious waste? Yes No
 Does the wastestream contain dioxins or furans or dioxin-precursors? Yes No
 Does the wastestream contain radioactive wastes? Yes No
 Does the wastestream contain PCBs? Yes No If Yes, what concentration? _____ ppm
 Is the wastestream air reactive, autoignitable, pyrophoric or spontaneously combustible? Yes No
 Is the wastestream water reactive? Yes No
 Does the wastestream present other compatibility concerns? Yes No If yes, specify _____
 Is the wastestream dusty? Yes No
20. List all Attachments analytical'

- 21 a. Transporter: Heritage Transport Other

24 Hour Emergency Number _____

If transporter is not Heritage Transport, complete the following:

Transporter Name _____

Address _____

City, State, Zip _____

Contact/Phone _____

US EPA ID No. _____

21b. Packaging:

Bulk Solid

Bulk Liquid

Container

Container Type _____

Dump Truck

Container Size _____

30 Yard

Annual Volume (units) _____

500 Yards

22. CERTIFICATION Sign and date the certification.

I hereby certify that all information submitted herein and attached contains true, accurate and complete descriptions of this waste. Any sample submitted for analysis is representative of the waste material being offered for approval. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I have reviewed the physical facilities, administrative practices, and operational procedures (or have directed the completion of such a review) and based on this review do willingly make this certification. I authorize Heritage to obtain a sample from any waste shipment for purposes of recertification. I will notify Heritage Environmental Services, LLC if the generator status or any other information on this form changes.

Signature _____

Date _____

Company _____

23. If wastestream carries F001, F002, F003, F004, and/or F005, identify concentration in mg/l or mg/kg for each constituent, if constituent is present, but concentrations are unknown, use the check box:

Acetone	n/a	2-Ethoxyethanol	n/a	2-Nitropropane	n/a
Benzene	3.79 mg/l	Ethyl Acetate	n/a	Pyridine	n/a
n-Butyl Alcohol	n/a	Ethyl Benzene	n/a	Tetrachloroethylene	n/a
Carbon Disulfide	n/a	Ethyl Ether	n/a	Toluene	n/a
Carbon Tetrachloride	n/a	Isobutanol	n/a	1,1,1-Trichloroethane	n/a
Chlorobenzene	n/a	Methanol	n/a	1,1,2-Trichloroethane	n/a
Cresol (m and p)	n/a	Methylene Chloride	n/a	Trichloroethylene	n/a
o-Cresol	n/a	Methyl Ethyl Ketone	n/a	1,1,2-Trichloro-1,2,2-trifluoroethane	n/a
Cyclohexanone	n/a	Methyl Isobutyl Ketone	n/a	Trichlorofluoroethane	n/a
1,2-Dichlorobenzene	n/a	Nitrobenzene	n/a	Xylenes (total)	n/a

24.	System Type	M141	Total Alkalinity	TOC	Halogens	Sulfides	Zn
	Hex Chrome		Total Acidity	HOC	Cyanides	Ni	

Toxicity Characteristic Constituents Provide the TCLP results for the following constituents in mg/l:

D004 Arsenic	D014 Methoxychlor	D024 m-Cresol	D034 Hexachloroethane
D005 Barium	D015 Toxaphene	D025 p-Cresol	D035 Methyl Ethyl Ketone
D006 Cadmium	D016 2,4-D	D026 Cresol	D036 Nitrobenzene
D007 Chromium	D017 2,4,5-TP(Silvex)	D027 1,4-Dichlorobenzene	D037 Pentachlorophenol
D008 Lead	D018 Benzene	D028 1,2-Dichloroethane	D038 Pyridine
D009 Mercury	D019 Carbon Tetrachloride	D029 1,1-Dichloroethylene	D039 Tetrachloroethylene
D010 Selenium	D020 Chlordane	D030 2,4-Dinitrotoluene	D040 Trichloroethylene
D011 Silver	D021 Chlorobenzene	D031 Heptachlor	D041 2,4,5-Trichlorophenol
D012 Endrin	D022 Chloroform	D032 Hexachlorobenzene	D042 2,4,6-Trichlorophenol
D013 Lindane	D023 o-Cresol	D033 Hexachlorobutadiene	D043 Vinyl Chloride

Complete for Williston,
VT; Caldwell, TX and



WASTE DETERMINATION

HERITAGE FORM # HERWS07

Facility Name: Rogers Park Sub Shop
Facility Location: Chicago

Facility EPA ID #: ILD984870139
Wastestream #:

1. Common Name: MGP Waste – Non-regulated per Federal Rule

2. Process Generating the Waste: Excavation of Impacted Soils

3. If MSDS(s) are to be used instead of analytical, list out all chemicals that are able to enter this wastestream. Attach MSDS(s).

4. Is the material a solid waste (Solid waste includes any material disposed of or abandoned in lieu of disposal, including materials burned, incinerated, or recycled and dioxins or furans, see 40 CFR 261.2. Please note that the word solid does not pertain to the physical state of the waste.)? Yes No

5. Is the material excluded from being a hazardous waste? (e.g., universal waste, used oil, etc.) Yes No If yes, note the exclusion and attach documentation. Per Federal Rule: Non-regulated in Indiana/MGP Waste

6. Is the solid waste listed as a hazardous waste (The answer to this question is based upon the process generating the waste or the chemical constituents for virgin materials. An MSDS is attached if virgin material.) Yes No

7. The waste is not ignitable (D001) based on:
 attached MSDS(s). attached analytical.xx generator knowledge. Heritage industrial waste table.

8. The waste is not corrosive (D002) based on:
 attached MSDS(s). attached analytical.xx generator knowledge. Heritage industrial waste table.

9. The waste is not reactive (D003) based on:
 attached MSDS(s). attached analytical.xx generator knowledge. Heritage industrial waste table.

10. The waste is not characteristic for metals (D004-D011) based on:
 attached MSDS(s). attached analytical.xx generator knowledge. Heritage industrial waste table.

11. The waste is not characteristic for volatiles (D018-19, D021-22, D028-29, D035, D038-40, D043) based on: MGP Rule Exemption on Benzene.
 Attached MSDS(s). attached analytical.xx generator knowledge. Heritage industrial waste table.

12. The waste is not characteristic for semi-volatiles (D023-27, D030, D032-34, D036-38, D041-42) based on:
 Attached MSDS(s). attached analytical.xx generator knowledge. Heritage industrial waste table.

13. The waste is not herbicides and pesticides (D012-17, D020, D031) based on:
 attached MSDS(s). attached analytical.xx generator knowledge. Heritage industrial waste table.

14. Does the waste require special handling (e.g., fugitive dust, heat producing)?
 Yes No If yes, identify: _____

15. The waste does not contain friable asbestos material; Category I nonfriable asbestos-containing material that has become friable; Category I nonfriable asbestos-containing materials that will be or has been subjected to sanding, grinding, cutting, or abrading; and Category II nonfriable asbestos-containing material that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material.

16. The waste does not contain PCB's and is not a Department of Transportation Hazardous Material.

17. The waste does not exhibit the presence of heat, or the capability of generating heat, or other significant risks that the particular waste may present in any reasonable anticipated handling, transportation, storage, processing, or reuse of that waste.

Certification

I hereby certify that all information submitted herein and attached contains true, accurate and complete descriptions of this waste and will notify Heritage Environmental Services, LLC (Heritage) if information on this form changes. The non-hazardous industrial waste represented above is not a hazardous waste. A waste determination was performed on this waste in accordance with 40 CFR 240-299 and 40 CFR 761. The characteristics of this waste have not changed since a waste determination was performed. I will notify Heritage if the characteristics of this waste change. For wastes generated in Indiana and/or landfilled in Indiana the waste determinant was done in accordance with IC 13-20-7.5-2. Documentation that supports the waste determination will be made available, upon request, to the landfill and the Indiana Department of Environmental Management.

Generator's Signature:
Printed Name:

Christopher F. Szela
 Christopher F. Szela

Title: Senior Engineer
 Date: 7-27-01

BEAVER OIL COMPANY WASTE SURVEY FORM

NOTICE (40 CFR 264.12): ACCEPTANCE OF THE GENERATOR'S WASTE INDICATES THAT BEAVER OIL HAS THE APPROPRIATE PERMITS FOR AND WILL
CARRY THE WASTE THE GENERATOR IS SHIPPING.

GENERATOR NAME: Peoples Gas

FACILITY ADDRESS: 66059 North Kedzie

Chicago IL

60645

BILLING NAME &

ADDRESS IF

DIFFERENT THAN

GENERATOR:

SET Environmental, INC.

450 Sumac Road

Wheeling, IL 60090

FACILITY CONTACT:

Alison Millenick

PHONE:

312 240-4832

ILL EPA GEN. #:

0316025027

US EPA GEN. #:

TLD984870139

MANIFEST MAILING

Alison Millenick

ADDRESS IF

Peoples Gas Light and Coke

DIFFERENT THAN

130 East Randolph Flora

GENERATOR:

Chicago IL 60601

NAME OF WASTE: Vault water

PROCESS GENERATING WASTE: Oil and water from vault clean out

IS THIS A US EPA HAZARDOUS WASTE (40 CFR 261)? YES NO IF YES, ATTACH HAZARD DISPOSAL CERTIFICATION

PLEASE PROVIDE APPLICABLE HAZARDOUS WASTE CODES:

BROKER SET Environmental CONTACT Sue Mannis PHONE # 847-537-9221

PHYSICAL/CHEMICAL CHARACTERISTICS OF WASTE

COLOR	ODOR	PHYSICAL STATE @ 70 °F	LAYERS	SOLIDS PERCENTAGE
<input checked="" type="checkbox"/> Black	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> MILD <input type="checkbox"/> STRONG	<input type="checkbox"/> SOLID <input checked="" type="checkbox"/> SEMI-SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	<input type="checkbox"/> MULTILAYERED <input checked="" type="checkbox"/> BI-LAYERED <input type="checkbox"/> SINGLE PHASED	<input checked="" type="checkbox"/> < 5% <input type="checkbox"/> 5.1-20% <input type="checkbox"/> 20.1-40% <input type="checkbox"/> 40.1-60% <input type="checkbox"/> 60.1-80% <input type="checkbox"/> 80.1-100% <input type="checkbox"/> EXACT
PH	SPECIFIC GRAVITY	FLASH POINT	REACTIVITY	
<input type="checkbox"/> < 2.1 <input checked="" type="checkbox"/> 2.1-4.0 <input checked="" type="checkbox"/> 4.1-7.0 <input type="checkbox"/> EXACT	<input type="checkbox"/> < 0.8 <input checked="" type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.1-1.2 <input type="checkbox"/> EXACT	<input checked="" type="checkbox"/> 1.3-1.4 <input type="checkbox"/> 1.5-1.7 <input type="checkbox"/> > 1.7	<input checked="" type="checkbox"/> 140 °F-200 °F <input checked="" type="checkbox"/> > 200 °F <input type="checkbox"/> NO FLASH <input type="checkbox"/> EXACT	<input type="checkbox"/> OPEN CUP <input type="checkbox"/> CLOSED CUP
				<input checked="" type="checkbox"/> EXPLOSIVE <input type="checkbox"/> SHOCK SENSITIVE <input type="checkbox"/> RADIOACTIVE <input checked="" type="checkbox"/> TOXICOLOGICAL <input checked="" type="checkbox"/> NA

CHEMICAL COMPOSITION (TOTAL MUST BE 100 %)

Water 95-99%

Cable oil 1-5%

Petroleum Hydrocarbons 0-1%

OTHER COMPONENTS - TOTAL (PPM)

CYANIDES	<input checked="" type="checkbox"/> NS	PESTICIDES	<input type="checkbox"/> NS
SULFIDES	<input type="checkbox"/>	HERBICIDES	<input type="checkbox"/>
PCBs	<input type="checkbox"/>	CHLORINE	<input type="checkbox"/>

SHIPPING INFORMATION

METHOD OF SHIPMENT:

 BULK LIQUID DRUM (TYPE/SIZE) _____

ANTICIPATED VOLUME: PER:

~ 1000 GALLONS

ONE TIME QUARTER MONTHWEEK YEARIS THIS A DOT HAZARDOUS WASTE? YES NO IF YES, HAZARDOUS CLASS:

PROPER DOT SHIPPING NAME: NOT Hazardous by DOT

SIGNED BY: _____ DATE: _____

WASTE CLASS: _____

APPROVAL: _____

HW CODE(S): _____

WASTE CHARACTERISTICS

TABLE 40 CFR 261.24: MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC
 G = DETERMINATION MADE BY GENERATOR INVESTIGATION / A = DETERMINATION MADE BY ACTUAL ANALYSIS

TO THE GENERATOR: ANY WASTE WHICH CONTAINS CONSTITUENTS IN CONCENTRATIONS ABOVE THE REGULATORY LEVEL SHOWN CONSTITUTE THAT WASTE AS A HAZARDOUS WASTE.

CONSTITUENT	REGULATORY LEVEL (mg/L)	CONCEN-TRATION (mg/L)	G	A	CONSTITUENT	REGULATORY LEVEL (mg/L)	CONCEN-TRATION (mg/L)	G	A
ARSENIC	5.0	55.0	Y		HEXAChLOROBENZENE	0.39	<0.13	X	
SARIUM	100.0	<100.0	X		HEXAChLOROETHANE	0.9	<0.3	X	
BENZENE	0.5	<0.5	Y		HEXAChLOROETHANE	3.0	<1.0	Y	
CADMIUM	1.0	<1.0	Y		LEAD	5.0	<5.0	Y	
CARBON TETRAChLORIDE	0.5	<0.5	Y		LINDANE	0.4	<0.4	Y	
CHLORDANE	0.03	<0.03	Y		MERCURY	0.2	<0.2	X	
CHLOROBENZENE	100.0	<100.0	Y		METHOXYCHLOR	10.0	<10.0	X	
CHLOROFORM	4.0	<4.0	X		METHYLETHYLE KETONE	200.0	<200.0	X	
CHROMIUM	5.0	<5.0	Y		NITROBENZENE	2.0	<2.0	X	
C-CRESOL	200.0 (*)	<200.0 (*)	Y		PENTAChLOROPHENOL	100.0	<100.0	Y	
M-CRESOL	200.0 (*)	<200.0 (*)	Y		PYRIDINE	5.0	<5.0	Y	
P-CRESOL	200.0 (*)	<200.0 (*)	Y		SELENIUM	1.0	<1.0	X	
CRESOL	200.0 (*)	<200.0 (*)	Y		SILVER	5.0	<5.0	Y	
2,4-DICHLOROPENOXY-ACETIC ACID	10.0	<10.0	X		TETRAChLOROETHYLENE	0.7	<0.6	X	
1,4-DICHLOROBENZENE	7.5	<7.5	X		TOMARVENE	0.5	<0.8	Y	
2-DICHLOROETHANE	0.5	<0.5	X		TRICHLOROETHENE	0.2	<0.7	Y	
1-DICHLOROETHYLENE	0.7	<0.7	Y		2,4,4,4-TETRAChLOROPHENOL	400.0	<400.0	Y	
2,4-DINITROTOLUENE	0.13	<0.13	Y		2,4,4,4-TETRAChLOROPHENOL	2.0	<2.0	Y	
ENDRIN	0.02	<0.02	Y		2,4,4-TRICHLOROPHENOL	1.0	<1.0	Y	
HEPTACHLOR (and its oxide)	0.008	<0.008	Y		VINYL CHLORIDE	0.2	<0.3	Y	

(*): IF O-, M-, AND P-CRESOL CONCENTRATIONS CANNOT BE DIFFERENTIATED, THE TOTAL CRESOL CONCENTRATION IS USED.

TOTAL METAL ANALYSIS

METAL	PPM	METAL	PPM	METAL	PPM	METAL	PPM
ARSENIC		CHROMIUM		SELENIUM		SILVER	
SARIUM		MERCURY		SILVER		LEAD	
CADMIUM		LEAD		COPPER		ZINC	

IS THIS WASTE CLASSIFIED AS A F001-F006, F039, D007, D002, OR D012-D043 WASTE?

YES NO

IF YES, ENTER UNDERLYING HAZARDOUS CONSTITUENTS AND THEIR CONCENTRATIONS:

CHECK THE APPROPRIATE TOC CONCENTRATION:

> 1% < 1%

BENZENE WASTE OPERATIONS CERTIFICATION:

DOES THIS WASTE CONTAIN BENZENE WHICH IS REQUIRED TO BE MANAGED AND TREATED IN ACCORDANCE WITH THE PROVISIONS OF 40 CFR 61.342 SUBPART (1)(2)?

YES NO

IF YES, ENTER THE FLOW-WEIGHTED ANNUAL AVERAGE BENZENE CONCENTRATION (MG/M³) AND/OR THE TOTAL ANNUAL BENZENE QUANTITY IN ALL WASTE STREAMS (MG/YEAR).

GENERATOR'S CERTIFICATION:

I HEREBY CERTIFY THAT ALL INFORMATION WHICH I HAVE PROVIDED ABOVE DESCRIBES THE WASTE STREAM THAT IS BEING OR IS PROPOSED TO BE SENT TO BEAVER OIL COMPANY'S HODSKINS, ILLINOIS AND/OR GARY, INDIANA FACILITY. I UNDERSTAND IT IS MY RESPONSIBILITY TO PROPERLY IDENTIFY AND CLASSIFY MY MATERIAL IN ACCORDANCE WITH STATE AND/OR FEDERAL REGULATIONS. I ALSO CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

AUTHORIZED SIGNATURE: Alison Millrich

TITLE: Se Engineer

DATE:

8/2/01

BEAVER OIL COMPANY WASTE SURVEY FORM

NOTICE (40 CFR 264.12): ACCEPTANCE OF THE GENERATOR'S WASTE INDICATES THAT BEAVER OIL HAS THE APPROPRIATE PERMITS FOR AND WILL ACCEPT THE WASTE THE GENERATOR IS SHIPPING.

GENERATOR NAME: Peoples Gas
 FACILITY ADDRESS: 10659 North Kedzie
Chicago IL
60645
 BILLING NAME &
 ADDRESS IF
 DIFFERENT THAN
 GENERATOR: SET Environmental, INC.
450 SUMAC Road
Wheeling, IL 60090

FACILITY CONTACT: Alison Millerick
 PHONE: 312 240 4832
 ILL EPA GEN #: 63160025027
 US EPA GEN #: ILD 984870139
 MANIFEST MAILING
 ADDRESS IF
 DIFFERENT THAN
 GENERATOR: Alison Millerick
Peoples Gas Light and Coke
130 East Randolph 20th Flr,
Chicago IL 60601

NAME OF WASTE: Vault water

PROCESS GENERATING WASTE: Oil and water from vault clean out

IS THIS A US EPA HAZARDOUS WASTE (40 CFR 261)? YES NO IF YES, ATTACHIFICATION

PLEASE PROVIDE APPLICABLE HAZARDOUS WASTE CODES: D018

BROKER SET Environmental CONTACT Sue Mannis PHONE # 047-537-9221

PHYSICAL/CHEMICAL CHARACTERISTICS OF WASTE

COLOR	ODOR	PHYSICAL STATE @ 70 °F	LAYERS	SOLIDS PERCENTAGE
<u>Black</u>	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> MILD <input type="checkbox"/> STRONG	<input type="checkbox"/> SOLID <input checked="" type="checkbox"/> SEMI-SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> POWDER	<input type="checkbox"/> MULTILAYERED <input checked="" type="checkbox"/> BI-LAYERED <input type="checkbox"/> SINGLE PHASED	<input checked="" type="checkbox"/> < 5% <input type="checkbox"/> 5.1-20% <input type="checkbox"/> 20.1-40% <input type="checkbox"/> EXACT
	DESCRIBE			

PH	SPECIFIC GRAVITY	FLASH POINT	REACTIVITY
<input type="checkbox"/> < 2.1 <input type="checkbox"/> 2.1-4.0 <input checked="" type="checkbox"/> 4.1-7.0	<input type="checkbox"/> 7.1-10 <input type="checkbox"/> 10.1-12.4 <input checked="" type="checkbox"/> 12.5-14.0 <input type="checkbox"/> NA	<input type="checkbox"/> < 0.8 <input checked="" type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.1-1.2 <input type="checkbox"/> > 1.7	<input type="checkbox"/> 140 °F-200 °F <input checked="" type="checkbox"/> > 200 °F <input type="checkbox"/> NO FLASH <input type="checkbox"/> EXACT

CHEMICAL COMPOSITION (TOTAL MUST BE 100 %)			OTHER COMPONENTS - TOTAL (PPM)		
<u>Water</u>	<u>95-99%</u>		<u>CYANIDES</u>	<u>NS</u>	<u>PESTICIDES</u>
<u>Cable oil</u>	<u>1-5%</u>		<u>SULFIDES</u>		<u>HERBICIDES</u>
<u>Petroleum Hydrocarbons</u>	<u>0%</u>		<u>PCBs</u>	<u>✓</u>	<u>CHLORINE</u>

SHIPPING INFORMATION

METHOD OF SHIPMENT: BULK LIQUID ANTICIPATED VOLUME: ~4000 GALLONS PER: ONE TIME QUARTER MONTH
 DRUM (TYPE/SIZE) DRUMS PER: WEEK YEAR —

IS THIS A DOT HAZARDOUS WASTE? YES NO IF YES, HAZARDOUS CLASS: Hazardous waste liquid, n.o.s. (benzene)

MOVED BY: DATE: WASTE CLASS:
 APPROVAL: HW CODE(S):

WASTE CHARACTERISTICS

TABLE 40 CFR 261.24: MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC.
 G = DETERMINATION MADE BY GENERATOR INVESTIGATION / A = DETERMINATION MADE BY ACTUAL ANALYSIS

TO THE GENERATOR ANY WASTE WHICH CONTAINS CONSTITUENTS AT CONCENTRATIONS ABOVE THE REGULATORY LEVEL SHOWN CONSTITUTES THAT WASTE AS A HAZARDOUS WASTE.

CONSTITUENT	REGULATORY LEVEL (PPM)	CONCEN-TRATION (PPM)	G	A	CONSTITUENT	REGULATORY LEVEL (PPM)	CONCEN-TRATION (PPM)	G	A
ARSENIC	5.0	<0.0	X		1,1-DIACLOVOLANE	0.5	<0.10	X	
BARIUM	100.0	<100.0	X		1,1-DIACLOVOLANE	0.5	<0.5	X	
BENZENE	0.5	<0.5	X		1,1-DIACLOVOLANE	0.5	<0.5	X	
CADMIUM	1.0	<1.0	X		1,1-DIACLOVOLANE	0.5	<0.5	X	
CARBON TETRACHLORIDE	0.5	<0.5	X		1,1-DIACLOVOLANE	0.5	<0.5	X	
CHLORDANE	0.02	<0.02	X		1,1-DIACLOVOLANE	0.5	<0.4	X	
CHLOROBENZENE	100.0	<100.0	X		1,1-DIACLOVOLANE	0.5	<0.2	X	
CHLOROFORM	0.0	<0.0	X		1,1-DIACLOVOLANE	100.0	<10.0	X	
CHROMIUM	5.0	<0.0	X		1,1-DIACLOVOLANE	200.0	<200.0	X	
O-CRESOL	200.0 (*)	<200.0 (*)	X		1,1-DIACLOVOLANE	2.0	<0.2	X	
M-CRESOL	200.0 (*)	<200.0 (*)	X		1,1-DIACLOVOLANE	1000.0	<100.0	X	
P-CRESOL	200.0 (*)	<200.0 (*)	X		1,1-DIACLOVOLANE	5.0	<0.5	X	
CRESOL	200.0 (*)	<200.0 (*)	X		1,1-DIACLOVOLANE	1.0	<1.0	X	
2,4-DICHLOROPHOXY-ACETIC ACID	10.0	<10.0	X		1,1-DIACLOVOLANE	0.7	<0.5	X	
1,4-DICHLOROBENZENE	7.5	<7.5	X		1,1-DIACLOVOLANE	0.5	<0.5	X	
1,2-DICHLOROETHANE	0.5	<0.5	X		1,1-DIACLOVOLANE	0.7	<0.7	X	
1,1-DICHLOROETHYLENE	0.7	<0.7	X		1,4-EPOXYBUTANE	400.0	<400.0	X	
2,4-DIMMUTOLEFENE	0.13	<0.13	X		1,4-EPOXYBUTANE	2.0	<2.0	X	
ENDURIM	0.01	<0.02	X		1,4-EPOXYBUTANE	1.0	<1.0	X	
HEPTACHLOR (and its isomers)	0.008	<0.008	X		VINYL CHLORIDE	0.1	<0.2	X	

(*) IF O-, M-, AND P-CRESOL CONCENTRATIONS CANNOT BE DIFFERENTIATED, THE TOTAL CRESOL CONCENTRATION IS USED.

TOTAL METAL ANALYSIS

METAL	PPM	METAL	PPM	METAL	PPM	METAL	PPM
ARSENIC		CHROMIUM		SELENIUM		LEAD	
BARIUM		MERCURY		SILVER		ZINC	
CADMIUM		LEAD		COOPER			

IS THIS WASTE CLASSIFIED AS A F001-F006, F039, D001, D002, OR D012-D043 WASTE?

IF YES, ENTER UNDERLYING HAZARDOUS CONSTITUENTS AND THEIR CONCENTRATIONS:

CHECK THE APPROPRIATE TOC CONCENTRATION:

2-7% < 1%

BENZENE WASTE OPERATIONS CERTIFICATION:

DOES THIS WASTE CONTAIN BENZENE WHICH IS REQUIRED TO BE MANAGED AND TREATED IN ACCORDANCE WITH THE PROVISIONS OF 40 CFR 61.342 SUBPART (H)(2)?

YES NO

IF YES, ENTER THE FLOW-WEIGHTED ANNUAL AVERAGE BENZENE CONCENTRATION 1000 AND THE TOTAL ANNUAL BENZENE QUANTITY IN ALL WASTE STREAMS 100000000.

GENERATOR'S CERTIFICATION:

I HEREBY CERTIFY THAT ALL INFORMATION WHICH I HAVE PROVIDED ABOVE DESCRIBES THE WASTE STREAM THAT IS BEING OR IS
PROPOSED TO BE SENT TO BEAVER OIL COMPANY'S HODGKINS, ILLINOIS AND MORTON CITY, INDIANA FACILITY. I UNDERSTAND IT IS MY
ABILITY TO PROPERLY IDENTIFY AND CLASSIFY MY MATERIAL IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS. I ALSO
CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

AUTHORIZED SIGNATURE: Alison Millerick

TITLE: JR ENGINEER

DATE: 8/2/01



Metal Buyers and Recyclers
1545 South Cicero Avenue
Cicero, Illinois 60804
TEL 708-780-6800
FAX 708-780-0510
DISPATCH 708-780-0079

Dispatch Number

Date

9-7-01

Drivers Ticket

Craig

Start Time
9 : 27

Arrive
10 : 19

Depart
:

End Time
:

Check One:

- Pick Up Only
- Pick Up & Drop
- Drop Only
- Live Load
- Round Trip
- Wood Load

Container Number:

Picked Up
R40H29

Dropped

Truck Number
312

Customer

Peoples Energy

Address

Jobsite

P/U DROP

Material

Skids (QTY)			
Gaylords (QTY)			
Drums (QTY)			
Totes (QTY)			
Hoppers (QTY)			
Other (State)			

<input type="checkbox"/> Packing List Attached	<input checked="" type="checkbox"/> No Packing List	Cust Ref / Rls No.
--	---	--------------------

Driver Signature	Customer Signature
------------------	--------------------

White: Office Copy

Yellow: Customer Copy

Blue: Driver Copy

WASTE CHARACTERIZATION REPORT

TO EXPEDITE YOUR WASTE APPROVAL, PLEASE COMPLETE THIS FORM ENTIRELY

Please Choose One EQ Management Facility

- Michigan Disposal Waste Treatment Plant
(Stabilization and Treatment)
- Wayne Disposal, Inc. Site #2 Landfill
(Hazardous & Chemical Waste Landfill)
- Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending, WW Treatment)
- EQIS - Transfer & Processing
(Drum Transfer/Non-Hazardous Liquid Processing)

49350 N. I-94 Service Drive	Belleville, MI 48111	EPA ID # MID 000 724 831
Phone: 800-592-5489	Fax: 800-592-5329	
49350 N. I-94 Service Drive	Belleville, MI 48111	EPA ID # MID 048 090 633
Phone: 800-592-5489	Fax: 800-592-5329	
36345 Van Born Road	Romulus, MI 48174	EPA ID # MID 060 975 844
Phone: 800-521-0998	Fax: 734-326-9375	
1010 Old Rawsonville Road	Ypsilanti, MI 48197	EPA ID # MIR 000 033 969
Phone: 734-547-1000	Fax: 734-480-9195	

Section 1 - Generator & Customer Information

SIC # 1311
 Generator EPA ID # IL D984870139
 Generator Peoples GAS
 Facility Address 16659 N Kedzie Ave
 City Chicago State IL Zip 60645
 County Cook
 Mailing Address (if different) 130 E Randolph 20th flr
 City Chicago State IL Zip
 Generator Contact Alison Millenick
 Title
 Phone 312 240 4832 Fax 312 240 4765

EQ Customer No. 1160
 Invoicing Company SE Environmental, Inc.
 Address 150 Summer Road
 City Wheeling State IL Zip 60090
 Country
 Invoicing Contact
 Phone Fax
 Technical Contact Sue Mannis
 Phone Fax

Section 2 - Shipping and Packaging Information

2.1) Shipping volume: 2X55
 Shipping frequency: One Time Only Annual

2.2) DOT shipping name _____

Density: _____ lbs./gallon or lbs./cubic yard (or) Specific Gravity: _____

2.3) Packaging : (check all that apply)

- Bulk Solid (Yd³ < 2000 lbs/yd³)
- Bulk Solid (Ton > 2000 lbs/yd³)
- Bulk Liquids (Gallons)
- Cubic Yard Boxes
- Drums
- Other (palletized, 5 gal. pails, etc.)

Quoted bulk disposal charges for solid materials will be billed by the cubic yd. if waste density is less than 2,000 lbs. per cubic yd. If waste density is greater than 2,000 lbs. per cubic yd., then bulk disposal charges will be billed by the ton regardless of the approved container.

Section 3 - Physical Characteristics

WASTE COMMON NAME:

PPE/debris

3.6) Describe the composition of the waste (i.e. key chemical compounds, soil, water, ppe, debris, etc.):

PPE
Dirty/grease
Debris (paper/plastic)

70 to 80 %

5 to 10 %

10 to 30 %

to %

Total = 100 %

3.7) Does this waste contain > 50% contaminated soil? Yes No

3.8) Does this waste contain > 50% debris by volume? Yes No
(debris is greater than 2.5 inches in size)

4.1) Provide a detailed description of the process (es) generating this waste (attach flow diagram if available):
PPE and debris from manhole cleanout

Based upon RCRA waste regulations (40 CFR 261) and Michigan Act 431 Rules:

- | | | | | |
|--|-----------------------------------|--|--|--------------------------------|
| 4.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | Waste Code(s) | |
| 4.3) Is this a MICHIGAN hazardous waste (Other than RCRA)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |
| 4.4) Is this a MICHIGAN nonhazardous liquid industrial waste? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |
| 4.5) Is this a UNIVERSAL waste? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |
| 4.6) Does this waste exceed LDR treatment standards? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |
| 4.7) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |
| 4.8) What is the flash point of this waste? <input type="checkbox"/> <90°F | <input type="checkbox"/> 90-140°F | <input type="checkbox"/> 140-199°F | <input checked="" type="checkbox"/> >200°F | |
| 4.9) Is the waste an oxidizer? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |
| 4.10) What is the pH of this waste? <input type="checkbox"/> <2 | <input type="checkbox"/> 2-4.9 | <input type="checkbox"/> 5-10 | <input type="checkbox"/> 10.1-12.4 | <input type="checkbox"/> ≥12.5 |
| 4.11) Does this waste contain reactive cyanide ≥ 250 ppm? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |
| 4.12) Does this waste contain reactive sulfide ≥ 500 ppm? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |
| 4.13) Is the waste surcharge exempt? (attach surcharge form) | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | |

Code	Regulatory Level	Concentration (if above)
	TCLP (mg/L)	
D004	Arsenic	5
D005	Barium	100
D006	Cadmium	1
D007	Chromium	5
D008	Lead	5
D009	Mercury	0.2
010	Selenium	1
D011	Silver	5
D012	Endrin	0.02
D013	Lindane	0.4
D014	Methoxychlor	10
D015	Toxaphene	0.5
D016	2,4-D	10
D017	2,4,5-TP(Silvex)	1
D018	Benzene	0.5
D019	Carbon Tetrachloride	0.5
D020	Chlordane	0.03
D021	Chlorobenzene	100
D022	Chloroform	6.0
D023	o-Cresol	200

Code	Regulatory Level	Concentration (if above)
	TCLP (mg/L)	
D024	m-Cresol	200
D025	p-Cresol	200
D026	Cresols	200
D027	1,4-Dichlorobenzene	7.5
D028	1,2-Dichloroethane	0.5
D029	1,1-Dichloroethylene	0.7
D030	2,4-Dinitrotoluene	0.13
D031	Heptachlor	0.008
D032	Hexachlorobenzene	0.13
D033	Hexachlorobutadiene	0.5
D034	Hexachloroethane	3.0
D035	Methyl Ethyl Ketone	200
D036	Nitrobenzene	2
D037	Pentachlorophenol	100
D038	Pyridine	5
D039	Tetrachloroethylene	0.7
D040	Trichloroethylene	0.5
D041	2,4,5-Trichlorophenol	400
D042	2,4,6-Trichlorophenol	2
D043	Vinyl Chloride	0.2

- 4.14) The hazardous constituent information is based on: Analysis (Please attach for review) Generator Knowledge Both
4.15) If this is a characteristic (D-coded) hazardous waste, does it contain underlying hazardous constituents (List in Section 5)? Yes No N/A

Section 5 - Constituent Information

Review the following items in the EQ Resource Guide and indicate their concentrations below:

- 1) MVOC (Michigan Volatile Organic Compounds)
- 2) CCVOC (Subpart CC Volatile Organic Compounds)
- 3) UHC (Underlying Hazardous Constituents)
- 4) TRI (Toxic Release Inventory Constituents)

Indicate all constituents in your waste stream, their concentrations, and circle Yes or No for UHC:

UHC?	
Yes-No	
Yes-No	
Yes-No	

UHC?	
Yes-No	
Yes-No	
Yes-No	

I WU UU UUU UU

A-1 LIMITEE LINE**Section 6 - PCB & PCCA Information**

INDUSTRIAL SIC CODES	6.1) What is the concentration of PCBs in the waste?
2812 1016 2875	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Unknown <input type="checkbox"/> 300+ ppm
2813 2841 2879	<input type="checkbox"/> Yes <input type="checkbox"/> No
2815 2842 2891	<input type="checkbox"/> Yes <input type="checkbox"/> No
2819 2843 2893	<input type="checkbox"/> Yes <input type="checkbox"/> No
2821 2844 2893	<input type="checkbox"/> Yes <input type="checkbox"/> No
2822 2851 2895	<input type="checkbox"/> Yes <input type="checkbox"/> No
2823 2861 2899	<input type="checkbox"/> Yes <input type="checkbox"/> No
2824 2863 2011	<input type="checkbox"/> Yes <input type="checkbox"/> No
2825 2869 2812	<input type="checkbox"/> Yes <input type="checkbox"/> No
2834 2873 4093	<input type="checkbox"/> Yes <input type="checkbox"/> No
2835 2874 5511	<input type="checkbox"/> Yes <input type="checkbox"/> No

- 6.2) Does the waste contain PCB contamination from a source with a concentration \geq 10 ppm? Yes No
- 6.3) Does this waste contain free liquids? (use paint filter test)
 Yes No
- 6.4) Has this waste been processed into a non-liquid form?
 Yes No
- 6.5) Is the non-liquid PCB waste in the form of soil, rock, debris, or other contaminated media? Yes No
- 6.6) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer?
 Yes No
- 6.7) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been deconstructed or all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? Yes No

Section 7 - Benzene/NESHAP Requirements

- 7.1) Does this waste stream contain Benzene? If "no" to 7.1, please skip to section 8.)
 Yes No
- 7.2) Does the waste stream come from a facility with one of the SIC codes listed under NESHAP?
 Yes No
- 7.3) Does your company manage wastes from facilities with Total Annual Benzene (TABS) \geq 10 Molyear? Yes No
- If you answered "NO" to question 7.2 AND 7.3 please skip to Section 8.
- 7.4) Does the waste contain $>$ 10 % water?
 Yes No
- 7.5) What is the TAB quantity for your facility? _____ Molyear
- 7.6) Does the waste contain $>$ 1.0 mg/l total Benzene?
 Yes No
- 7.7) What is the total Benzene concentration in your waste? _____ percent or _____ ppm.
 (Do not use TCEC analytical results. Analytical laboratory methods include 3010, 2244, 2201, 4027, and 4141)

Section 8 - Waste Classification Treatment, Management, and Control

- 8.1) Does this waste contain any "Potentially Odorous Constituents" as defined in the SIC Resource Guide?
 Yes No
- 8.2) Does this waste contain any MVOC constituents as defined in the EQ Resource Guide?
 Yes No
- 8.3) Is this waste subject to Superfund regulation (i.e., contain \geq 30 ppm (VOCs) Volatile Organic Compounds)?
 Yes No
- If 8.1, 8.2 or 8.3 is "yes" - please indicate the constituents and their concentrations in the table provided in Section 3

Section 9 - Reclamation/Recycling/Blending→ Complete for **Miscellaneous Recyclable Items ONLY**

- 9.1) Heat value (BTU/lbs): _____ Chlorine(%): _____ Water (%): _____ Solvents: _____
- 9.2) Is this material a recoverable petroleum product? Yes No 9.3) Is this material for wastewater treatment? Yes No
- If 9.1 or 9.2 is "yes" - please attach the Wastewater Addendum form found in the EQ Resource Guide.

Section 10 - Certification

I certify that all information (including attachments) is complete and factual and that accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's Reclamative Team to obtain supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

Generator Signature: *Alison M. Mack* Printed Name: *Alison M. Mack*
 Company: *The Peoples Gas Light & Coke Co.* Title: *SP: Eng. Dept.* Date: *8/26/01*

¹ Generator's signature must appear on the EQ Waste Characterization Report. Other Generator must provide a third party to certify this statement, a written notice (on generator letterhead) must accompany the statement. Although the EQ Resource Team is authorized to make certain modifications to the information provided on this form, the addition or removal of wastes codes and waste constituents must be documented by the generator.

PEOPLES ENERGY

Peoples Gas
North Shore Gas

November 6, 2001

Mr. Joseph Kash
Regional Compliance Manager
Waste Management
5245 West 38th Street
Cicero, IL 60804

Re: CID BioPlant Profile PB7935

Dear Joe,

As we have discussed previously Peoples Gas would like to amend the above referenced waste profile to include excavation water from another manufactured gas plant remediation site. The address and pertinent identification numbers for the additional site is as follows:

- Address: 6659 N Kedzie.
- Illinois EPA ID#: 0316025027
- USEPA/Federal ID#: ILD984870139

All other generator information contained in Section A. Waste Generator Information of the original Waste Profile Sheet remains the same. The original waste profile characterization and analytical information is representative of the excavation water at the Kedzie site. If you have any questions I can be reached at (312) 240-4832.

Sincerely,



Alison E. Millerick
Sr. Engineer
Environmental Affairs

cc: S. Mannis, SET Environmental
M. Kelley, Burns & McDonnell

APPENDIX C
AMBIENT AIR MONITORING DOCUMENTATION

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: NORTH
 Date: 8-9-01

Sampler: Courtney Metzger
 Weather: HOT 95° Sunny

Time	PID Make: RAE Systems Model: MINI-KATE2000 ID: 110-002141	Dust Meter (mg/m ³) Make: MIE Model: MINI-RAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	- -	EXCAVATING HAZ WASTE
9:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
10:00am	0.0	0.000	-	-	No Activity
11:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
NOON	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: Santit

Sampler: Courtney Moore (stones)

Project #: 27194-4.07

Date: B-9-01

Weather: Hot 95° Sunny

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 8-9-01

Sampler: Carenay Mancuso
 Weather: Hot 95% sunny

Time	PID Make: <u>Brüel & Kjaer</u> Model: <u>Minikane 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Minikane</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	EXCAVATING HAZ WASTE
9:00am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
10:00am	0.0	0.000	—	—	No Activity
11:00am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
NOON	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: West
 Date: 8-9-01

Sampler: Conveyway Material Offce
 Weather: Hot 95° Sunny

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>MINI RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MF</u> Model: <u>MINI RAE</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	-	-	EXCAVATING HAZ WASTE
9:00 am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
10:00 am	0.0	0.000	-	-	No Activity
11:00 am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
NOON	0.0	0.000	-	-	"
1:00 pm	0.0	0.000	-	-	"
2:00 pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: North

Date: 8-10-01

Sampler: Courtney Wetherbee

Weather: MILD 75° Sunny

Time	PID Make: <u>Perkins</u> Model: <u>Minikam 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Minikam</u> ID: <u>D2067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
9:00 am	0.0	0.000	—	—	No Activity
10:00 am	0.0	0.000	—	—	EXCAVATING, SPECIAL WASTE
11:00 am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	No Activity
1:00 pm	0.0	0.000	—	—	"
2:00 pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main Sampling Location: South
 Project #: 27194-4.07 Date: 8-10-01
 Sampler: Denktony Marthas
 Weather: MILD 75° Sunny

Time	PID Make: <u>RAE Systems</u> Model: <u>Minikane 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>WIE</u> Model: <u>Minidust</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
9:00 am	0.0	0.000	—	—	No Activity
10:00 am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
11:00 am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	No Activity
1:00 pm	0.0	0.000	—	—	"
2:00 pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: EAST

Sampler: Cavertech Ultrafuge

Project #: 27194-4.07

Date: 8-10-01

Weather: Windy 75° Sunny

Time	PID Make: <u>Reed Stroms</u> Model: <u>MINIPLATE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Miniplan</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	No Activity
10:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	No Activity
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: WEST

Sampler: Canyon Woods
Weather: Wnd / 75° Sunny

Project #: 27194-4.07

Date: 8-10-01

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: NORTH

Date: 8-13-01

Sampler: Courtney Marthoffer

Weather: Mild 77° OVERCAST

Time	PID Make: <u>RAE Systems</u> Model: <u>Mini Rite 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>ME</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	No Activity
9:00am	0.0	0.000	—	—	EXCAVATING
10:00am	0.0	0.000	—	—	SPECIAL WASTE
11:00am	0.0	0.000	—	—	"
NOON	0.0	0.000	—	—	CHASING TAR PIPE
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: Smith
 Date: 8-13-01

Sampler: Conway Marzetta
 Weather: MILD 77° OVERCAST

Time	PID Make: RAE SYSTEMS Model: MINI RAE 2000 ID: 110-002141	Dust Meter (mg/m ³) Make: MIE Model: Mini RAM ID: D2067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	No Activity
9:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	CHASING TAR PIPE
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: EAST

Date: 8-13-01

Sampler: Constance Martino

Weather: MILD TO OVERCAST

Time	PID Make: <u>PAR Systems</u> Model: <u>Mini RAM 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>MINI RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	No Activity
9:00 am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
10:00 am	0.0	0.000	-	-	"
11:00 am	0.0	0.000	<	-	"
Noon	0.0	0.000	-	-	CHASING TAR PIPE
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: WEST

Date: 8-13-01

Sampler: Connerney MARTIN

Weather: MILD 77° OVERCAST

Time	PID Make: <u>P&P Systems</u> Model: <u>Minikar</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	No Activity
9:00am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
NOON	0.0	0.000	—	—	CHASING TAR PIPE
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project:	Rogers Park Main	Sampling Location:	<u>NORTH</u>	Sampler:	<u>Connerney Mettler</u>
Project #:	27194-4.07	Date:	<u>8-15-01</u>	Weather:	<u>78° Sunny</u>
Time	PID Make: <u>RAE Systems</u> Model: <u>Minikat 2000</u> ID: <u>10-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Minikat</u> ID: <u>02007</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	LOADING/EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	—	—	No Activity
10:00am	0.0	0.000	—	—	Moving Fill
11:00am	0.0	0.000	—	—	LOADING SPECIAL WASTE
Noon	0.0	0.000	—	—	Ex. "No Activity"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	No Activity

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: South

Sampler: *Perry M. Moore*

Project #: 27194-4.07

Date: 8-14-01

Weather: 70° S

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 8-14-01

Sampler: Carenay Marhofer
 Weather: 78° Sunny

Time	PID Make: <u>Rodgers</u> Model: <u>MiniRTE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>MiniRTE</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	Construction / excavating Special waste
9:00am	0.0	0.000	-	-	No Activity
10:00am	0.0	0.000	-	-	Moving Fiel
11:00am	0.0	0.000	-	-	Construction Special waste
12:00pm	0.0	0.000	-	-	No Activity
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: West
 Date: 8-14-01

Sampler: Courtney Marhoff
 Weather: Sunny 78°

Time	PID Make: <u>Ratemanski</u> Model: <u>Minimaster</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Mini-Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	LOADING/EXCAVATING, SPECIAL WASTE
9:00am	0.0	0.000	—	—	No Activity
10:00am	0.0	0.000	—	—	Moving Trk
11:00am	0.0	0.000	—	—	LOADING SPECIAL WASTE
Noon	0.0	0.000	—	—	No Activity
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: North
 Date: 8-15-9

Sampler: C
 Weather: Cloudy W/ rain
Sunny 80°

Time	PID Make: <u>RAE Systems</u> Model: <u>Minirae 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>MINI RAE</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
9:00am	0.0	0.000	—	—	EXCAVATING VALUE BOX
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"
3:00pm	—	—	—	—	" (NO READINGS B/C RAIN)

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: South

Sampler: Cenceney Waterhouse

Project #: 27194-4.07

Date: 8-15-07

Weather: Sunny 80°

Time	PID Make: <u>Rate Systems</u> Model: <u>Miniraman</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>WE</u> Model: <u>Miniraman</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
9:00am	0.0	0.000	-	Slight concrete odor	EXCAVATING VALVE BOX
10:00am	0.0	0.000	-	"	"
11:00am	0.0	0.000	-	"	"
Noon	0.0	0.000	-	"	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	-	-	-	-	" (No sampling S/C RPTNS)

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: EAST

Sampler: Carmen Martinez

Project #: 27194-4.07

Date: 8-15-01

Sampler: Conway / V. M. S. P. R.
Weather: Sunny 80°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 8-15-01

Sampler: Carenay Martensen
 Weather: Sunny 80°

Time	PID Make: <u>Kodak 8700S</u> Model: <u>Minicap 2000</u> ID: <u>10-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Minidust</u> ID: <u>62067</u>	Benzene (ppm)	Odors	Remarks
9:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	SUGAR COAL TARE	"
2:00pm	0.0	0.000	-	"	"
3:00pm	-	-	-	-	" (NO REMAINING DUST IN AIR)

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: North

Sampler: Convenor/Monitor
Weather: Rain 75°

Project #: 27194-4.07

Date: 8-16-01

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: SOUTH

Sampler: Levany M. Metzger

Project #: 27194-4.07

Date: 8-16-91

Weather: Rain 75°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: EAST
Date: 8-16-01

Sampler: Cameron Harrington
Weather: Rain 75°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: West
 Date: 8-16-01

Sampler: Canyon Ultrafuge
 Weather: Rain 75°

Time	PID Make: <u>KAESystems</u> Model: <u>Minirite 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Minirite</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	—	—	—	—	RAIN
9:00 am	0.0	0.000	—	—	Removing Asphlt
10:00 am	0.0	0.000	—	—	"
11:00 am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: North

Sampler: Gurney Ultrafilter

Project #: 27194-4.07

Date: 8-17-01

Weather: Sunny / 80°

Time	PID Make: <u>RTE SYSTEMS</u> Model: <u>Mini Rate 2000</u> ID: <u>110-002140</u>	Dust Meter (mg/m ³) Make: <u>WIE</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	Crushing Concrete
9:00am	0.0	0.000	—	—	Exposing Brick
10:00am	0.0	0.000	—	—	Exposing Brick
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: South
 Date: 8-17-01

Sampler: Cerneyay Monitor
 Weather: Sunny 80°

Time	PID Make: <u>RAE Systems</u> Model: <u>Minicart 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>WIE</u> Model: <u>mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	CURSITING CONCRETE
9:00am	0.0	0.000	-	-	EXPOSING VALUE 150X
10:00am	0.0	0.000	-	-	EXPOSING VALUE 150X
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main Sampling Location: EAST Sampler: Ceremony W/attacher
 Project #: 27194-4.07 Date: 8/7-01 Weather: Sunny 80°

Time	PID Make: <u>RAE Systems</u> Model: <u>Minikrom 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>WIE</u> Model: <u>Minikrom</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	Cremation Cuckoo
9:00am	0.000 0.0	0.000	—	COAL TAR Strong	EXPOSING VACUUM BOX
10:00am	0.0	0.000	—	"	"
11:00am	0.0	0.000	—	"	"
Noon	0.0	0.000	—	"	"
1:00pm	0.0	0.000	—	"	"
2:00pm	0.0	0.000	—	"	"
3:00pm	0.0	0.000	—	"	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: WEST

Sampler: Conrad Martschner

Project #: 27194-4.07

Date: 8-17-01

Weather: Sunny 80°

Time	PID Make: <u>RAE Systems</u> Model: <u>MINI-TRAK 200</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>IMIE</u> Model: <u>MINI RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	Crushing Concrete EXPOSING VALVE BOXES
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: NORTH

Sampler: Conrad M Archibong
Weather: Sunny 75°

Project #: 27194-4.07

Date: 8-26-01

Weather: Sunny 75°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: SOUTH
Date: 8-20-01

Sampler: Carenay Northoff
Weather: Sunny + 50

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: EAST
Date: 8-20-01

Sampler: Courtney Murchison
Weather: Snowy 750

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: West
Date: 8-20-01

Sampler: Courtney Winkler-Parr
Weather: Sunny 75°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main Sampling Location: North
 Project #: 27194-4.07 Date: 8-21-01
 Sampler: Dwight Marrison
 Weather: Sunny 82°

Time	PID Make: CAT Systems Model: MiniCAT2000 ID: 110-002141	Dust Meter (mg/m³) Make: WIE Model: MINIRAM ID: 02007	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	Excavating VALUES Box
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: South
 Date: 8-21-01

Sampler: Courtney Martz
 Weather: Sunny 82°

Time	PID Make: LPS Systems Model: Mini-Kin 200 ID: 100-022141	Dust Meter (mg/m ³) Make: RMC Model: Mini-Ram ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 8-21-01

Sampler: Gary Maretzke
 Weather: Sunny 82°

Time	PID Make: Ultra Systems Model: MiniCAT 2000 ID: 110-002141	Dust Meter (mg/m ³) Make: MIE Model: Mini RAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: West
 Date: 8-21-01

Sampler: Craig May/Matthewson
 Weather: Sunny 82°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>MINI RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>WIE</u> Model: <u>MINI RAE</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE Box
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: North

Sampler: Courtney MARHOEFF
Weather: Cloudy, Rain, humid 80°

Project #: 27194-4.07

Date: 8-22-01

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: South

Sampler: Constance Martensen
Weather: Cloudy, Rainy, Humid 80°

Project #: 27194-4.07

Date: 8-22-0

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: EAST

Sampler: Carkaray Marlo
Weather: Clowry, Rain, Humid 80°

Project #: 27194-4.07

Date: 8-22-01

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: WEST

Project #: 27194-4.07

Date: 8-22-01

Sampler: Courtney M. Aethomae
Weather: Cloudy, 80°, Humid, 80°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: North

Sampler: Concurrent Masterstar
Weather: Clean air, RH 60, Temp 75°

Project #: 27194-4.07

Date: 8-28-01

Time	PID Make: <u>RAE Systems</u> Model: <u>MiniRAE 2000</u> ID: <u>16-002141</u>	Dust Meter (mg/m³) Make: <u>MIKE</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	EXCAVATING VALUE BOX
9:00am	0.0	0.000	—	—	"
10:00am	—	—	—	—	RAIN
11:00am	0.0	0.000	—	—	EXCAVATING VALUE BOX
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	6.0	0.000	—	—	"
3:00pm	0.0	6.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: South

Sampler: Coverney M.A. Hartman

Project #: 27194-4.07

Date: 8-23-01

Weather: Cloudy, Wind, Humid 75°

Time	PID Make: <u>RTS Systems</u> Model: <u>Mini PAP 2000</u> ID: <u>110-002441</u>	Dust Meter (mg/m³) Make: <u>MIE</u> Model: <u>mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
9:00am	0.0	0.000	-	-	"
10:00am	-	-	-	-	RAIN
11:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: EAST

Sampler: Cowenay Alberto

Project #: 27194-4.07

Date: 8-23-01

Weather: Clear, 70°, Humid 75%

Time	PID Make: <u>Rae Systems</u> Model: <u>Minipulse 2000</u> ID: <u>10-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Min. Room</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
9:00am	0.0	0.000	-	-	"
10:00am	-	-	-	-	RAIN
11:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 8-23-01

Sampler: Cowenay W. Metzger
 Weather: Cloudy, RAIN, Humid
75°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>Mini RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Mini Ram</u> ID: <u>02667</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
9:00am	0.0	0.000	-	-	"
10:00am	-	-	-	-	RAIN
11:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: NORTH

Sampler: C. M. T. T. S.

Project #: 27194-4.07

Date: 8-24-01

Weather: Cloudy, 80°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: Sunset

Sampler: Caren M. Hettiger

Project #: 27194-4.07

Date: 8-24-01

Weather: Clear - 65°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: B-24-01

Sampler: Christen Nuttall Jr.
 Weather: Cloudy 80°

Time	PID Make: <u>KME Systems</u> Model: <u>Mini RAES 200</u> ID: <u>116-002141</u>	Dust Meter (mg/m ³) Make: <u>WIE</u> Model: <u>Mini Rdm</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	EXCAVATING VAN BOX
9:00am	0.0	0.000	—	—	EXCAVATING VAN BOX, LOADING APPARATUS
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: WEST

Sampler: Carmen Mazzoni

Project #: 27194-4.07

Date: 8-24-01

Weather: Cloudy, 80°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: NORTH

Sampler: Conrad J. Lutz

Project #: 27194-4.07

Date: 8-27-01

Wastebow: STANLEY MARSHAL FERGUSON

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: SOUTH

Sampler: Candy Madsen

Project #: 27194-4.07

Date: 8-27-01

Sample: Sediment Minnow
Weather: Sunny 80°

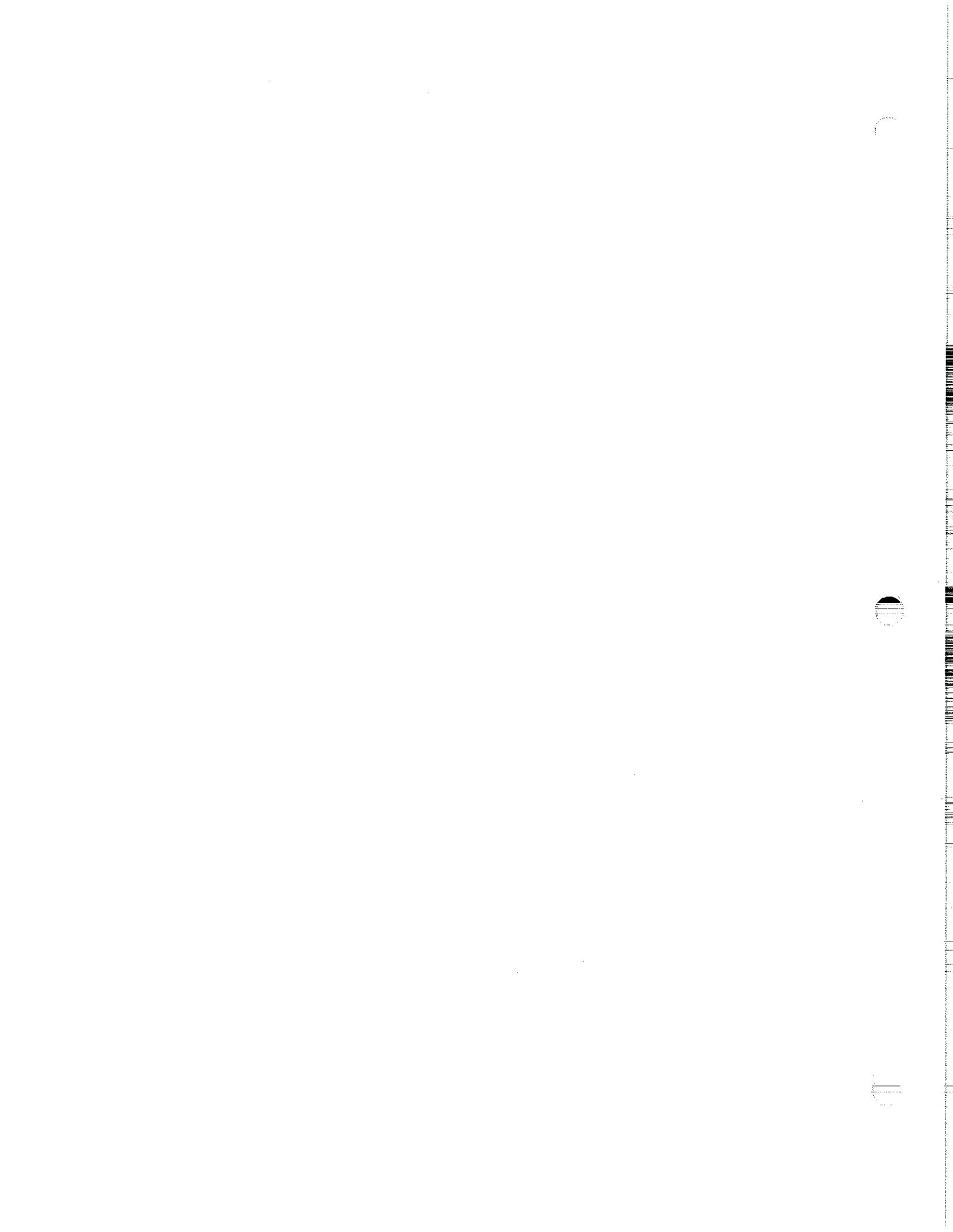
Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 8-27-01

Sampler: Conway Wettower
 Weather: Sunny, 80°

Time	PID Make: <u>RAE Systems</u> Model: <u>mini RAEM2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>ME</u> Model: <u>Mini RdM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	LOADING SPECIAL WASTE
9:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
10:00am	0.0	0.000	-	-	II, DRAINING H2O Pump Valve Box
11:00am	0.0	0.000	-	-	LOADING SPECIAL WASTE
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"



Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: WEST

Sampler: COURTNEY MARHOFFER

Project #: 27194-4.07

Date: 8-27-01

Weather: Sunny 80°

Time	PID Make: <u>PNE Systems</u> Model: <u>MINI RA200</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>MIE</u> Model: <u>MINI RAM</u> ID: <u>D2007</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	LOADING SPECIAL WASTE
9:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
10:00am	0.0	0.000	-	-	" DRAINS H2O " FROM VACUUM PUMPS
11:00am	0.0	0.000	-	-	LOADING SPECIAL WASTE
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: NORTH
 Date: 8-28-01

Sampler: Conestoga MacIntyre
 Weather: Sunny 80°

Time	PID Make: <u>FAE SYSTEMS</u> Model: <u>Mini RAE 200</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	EXCAVATING VALVE BOX
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
NOON	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: Smith

Date: 8-28-01

Sampler: Carenay Norrborg

Weather: Sunny 80°

Time	PID Make: <u>RAE Systems</u> Model: <u>Mini RAM</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project:	Rogers Park Main		Sampling Location:	EAST		Sampler:	<i>Craig Tracy Marette/for</i>	
Project #:	27194-4.07		Date:	8-28-01		Weather:	<i>Sunny 80°</i>	
Time	PID Make: <u>RPS SYSTEMS</u> Model: <u>MINIPLATE200</u> ID: <u>10-02141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Minicam</u> ID: <u>02067</u>	Benzene (ppm)	Odors		Remarks		
8:00am	0.0	0.000	—	—		<i>excavating valve box</i>		
9:00am	0.0	0.000	—	—		"		
10:00am	0.0	0.000	—	—		"		
11:00am	0.0	0.000	—	—		"		
12:00pm	0.0	0.000	—	—		"		
1:00pm	0.0	0.000	—	—		"		
2:00pm	0.0	0.000	—	—		"		
3:00pm	0.0	0.000	—	—		"		

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 8-28-01

Sampler: Courtney Miretta for
 Weather: Sunny 80°

Time	PID Make: <u>PAR Systems</u> Model: <u>Mini PAR 2000</u> ID: <u>11002141</u>	Dust Meter (mg/m³) Make: <u>MPC</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	-	-	excavating VALUES 60X
9:00 am	0.0	0.000	-	-	"
10:00 am	0.0	0.000	-	-	"
11:00 am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00 pm	0.0	0.000	-	-	"
2:00 pm	0.0	0.000	-	-	"
3:00 pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: <u>Rogers Park Main</u>	Sampling Location: <u>NORTH</u>	Sampler: <u>Courtney Maktoor</u>			
Project #: <u>27194-4.07</u>	Date: <u>8-29-01</u>	Weather: <u>Sunny 80°</u>			
Time	PID Make: <u>PHE SYSTEMS</u> Model: <u>MINI RAM 2000</u> ID: <u>10-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>MINI RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	-	-	EXCAVATING VALVE BOX
9:00 am	0.0	0.000	-	-	"
10:00 am	0.0	0.000	-	-	"
11:00 am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00 pm	0.0	0.050	-	-	"
2:00 pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: SOUTH
 Date: 8-29-01

Sample: D Concourse W Metropark
 Weather: Sunny 80°

Time	PID Make: <u>RPS Systems</u> Model: <u>MINIKA200</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>NIE</u> Model: <u>MINI RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE Box
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	4
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: East

Sample: Conway Marsh
Weather: Sunny 80°

Project #: 27194-4.07

Date: 8-29-01

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 8-29-01

Sampler: Courtney Martzhofer
 Weather: Sunny 80°

Time	PID Make: RAE SYSTEMS/ Model: MINI RAE 2000 ID: 110-002141	Dust Meter (mg/m ³) Make: NIE Model: MINI RAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING VALVE BOX
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main Sampling Location: North Sampler: Courtney Martensen
 Project #: 27194-4.07 Date: 8-30-01 Weather: Snowy 85°

Time	PID Make: <u>RAE Systems</u> Model: <u>Mini RAES2000</u> ID: <u>UO-002141</u>	Dust Meter (mg/m³) Make: <u>MIE</u> Model: <u>Minicam</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	LADING SPECIAL WASTE
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: South
 Date: 8-20-01

Sampler: Garrison M. Westerhouse
 Weather: Sunny 85°

Time	PID Make: <u>RAEsystems</u> Model: <u>Mini RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>NIKE</u> Model: <u>Mini RAE</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	Catting SAW WASTE
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 8-20-01

Sampler: Caveman 11/Herterrose
 Weather: Sunny 85°

Time	PID Make: <u>KTE Systems</u> Model: <u>Mini KTE-200</u> ID: <u>10002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	Lot 0109 Street WASTE
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project:	Rogers Park Main		Sampling Location:	West	
Project #:	27194-4.07		Date:	8-30-01	
				Sampler:	Carenay Marthorpe
				Weather:	Sunny 85°
Time	PID Make: RAE Systems Model: MiniKTE 2000 ID: 110-002141	Dust Meter (mg/m ³) Make: NIE Model: MiniRPM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	 Coming from white
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: West

Sampler: K. Nichols

Project #: 27194-4.07

Date: 8/31/01

Weather: Sunny 70°F

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: NORTH
Date: 8/31/01

Sampler: K. Nicholas
Weather: Sunny 70°F

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: SOUTH
Date: 8/31/01

Sampler: K.Nichols
Weather: Sunny 70°F

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: EAST
Date: 8/31/01

Sampler: IC-Nicitos
Weather: Sunny 70°F

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: NORTH
 Date: 9-4-01

Sampler: Gateway Masterflow
 Weather: Sunny 75°

Time	PID Make: <u>RTE Systems</u> Model: <u>MINI-RATE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>WIE</u> Model: <u>MINICAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	Plumbing water
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	EXCAVATING 24" CAST IRON PIPE
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: Sutte

Date: 9-4-01

Sample

Weather

Cerro Negro
Sunny 75°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: EAST

Sampler: Courtney M. Metzger
Weather: Sunny 75°

Project #: 27194-4.07

Date: 9-4-01

Time	PID Make: <u>Fine Systems</u> Model: <u>Minicart 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>NIE</u> Model: <u>Mini-Kern</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	Finishing WATER
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	EXCAVATING 24" CAST IRON PIPE
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 9-4-01

Sampler: Carenthy M. Anderson
 Weather: Sunny 75°

Time	PID Make: <u>Reh-Sytronics</u> Model: <u>MINI-PAE2000</u> ID: <u>110-000441</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>MINIRAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	
9:00am	0.0	0.000	-	-	RUNNING WATER
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	EXCAVATING 24"
1:00pm	0.0	0.000	-	-	CAST IRON PIPE
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Project #: _____ 27194-4.07

Sampling Location: NORT#

Date: 9-5-01

Sampler: Chertney M. Ashton

Weather: Sunny 75°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: South
 Date: 9-5-01

Sampler: Coweney Mastercor
 Weather: Sunny 75°

Time	PID Make: <u>RAE Systems</u> Model: <u>Mini RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ELI</u> Model: <u>Minikram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	Filling value box
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: EAST

Date: 9-5-01

Sampler: Convergent Ultraportor
Weather: Sunny 78°

Time	PID Make: <u>PacSystems</u> Model: <u>Mini PID-2000</u> ID: <u>11002141</u>	Dust Meter (mg/m ³) Make: <u>NIIG</u> Model: <u>Minipan</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	FILLING VALVE Boo.
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: West
 Date: 9-5-01

Sampler: Carey Wetherbee
 Weather: Sunny 75°

Time	PID Make: <u>RAE Systems</u> Model: <u>Mini RAES 2000</u> ID: <u>11002141</u>	Dust Meter (mg/m³) Make: <u>MEC</u> Model: <u>Mini RGM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	LOW VALUE Box
9:00am	0.0	0.002	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main Sampling Location: NORTH
Project #: 27194-4.07 Date: 9-6-01 Sampler: Courtney M. Arthur
Weather: Cloudy 80°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: SOUTH
 Date: 9-6-01

Sampler: Garrison M. Atkinson
 Weather: Cloudy 80°

Time	PID Make: <u>RAF SYSTEMS</u> Model: <u>MINI PLATE 200</u> ID: <u>110-002144</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Minim</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	—	—	BUILDING BREKFAST
9:00 am	0.0	0.000	—	—	ROWING SEAP SCHOOL
10:00 am	0.0	0.000	—	—	"
11:00 am	0.0	0.000	—	—	BACKFILLING
Noon	0.0	0.000	—	—	"
1:00 pm	0.0	0.000	—	—	"
2:00 pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 9-6-01

Sampler: Devinay M. Arthurson
 Weather: Sunny 70°

Time	PID Make: <u>RAE Systems</u> Model: <u>Minicart 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Minikrom</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	-	-	BUILDING FORMS
9:00 am	0.0	0.000	-	-	Leaving Street
10:00 am	0.0	0.000	-	-	"
11:00 am	0.0	0.000	-	-	BACKFILLING
Noon	0.0	0.000	-	-	"
1:00 pm	0.0	0.000	-	-	"
2:00 pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: WEST
Date: 9-6-01

Samplers: Governor M. Metropole
Weather: Cloudy 80°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: NORTH

Project #: 27194-4.07

Date: 9-7-01

Sampler: COURTNEY MARTINSON
PASTRY: Cloney, thunis 85°
Weather:

Time	PID Make: RAE Systems Model: MiniRAE 2000 ID: 110-002141	Dust Meter (mg/m³) Make: WIE Model: Mini RAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	BACKFILLING
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Sampling Location: SOUTH

Project #: 27194-4.07

Date: 9-7-0

Sampler: Courtney MARTHOEFER
Weather: Partly Cloudy, Humid 85°

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Project #: 27194-4 07

Sampling Location: EAST

Date: 9-7-01

Sampler: COURTNEY MARHOEFER
Weather: Poetry Classy, Humid
86°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: West
 Date: 9-7-01

Sampler: Courtney Marthaler
 Weather: Precip. Cloudy, Humid
85°

Time	PID Make: RAE SYSTEMS Model: MINI PID 2000 ID: 110-002141	Dust Meter (mg/m ³) Make: MIE Model: MINI RAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	D.D	0.000	-	-	
9:00am	D.D	0.000	-	-	BACKFILLING
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Project #: 27194-4.07

Sampling Location: NORTH

Date: 9-10-0

Sampler: Courtney Marthaler
Weather: Sunny 75°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: SOUTHT
 Date: 9-10-01

Sampler: C. Courtney W. McHerron
 Weather: Sunny - 75°

Time	PID Make: LPS Systems Model: Mini PID 2000 ID: 110-002141	Dust Meter (mg/m³) Make: WIE Model: Mini RAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	-	-	
9:00 am	0.0	0.050	-	-	BACKFLUSH, ENRAGING, FRAC TANK
10:00 am	0.0	0.050	-	-	"
11:00 am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	?	"
1:00 pm	0.0	0.000	-	?	"
2:00 pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: EAST
Date: 9-10-01

Sampler: Courtney Martz Hoerter
Weather: Sunny 75°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: West
 Date: 9-10-01

Sampler: Carenay Martzhofer
 Weather: Sunny 75°

Time	PID Make: <u>PESYSTEMS</u> Model: <u>Min RAM 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>MIE</u> Model: <u>Min RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	
9:00am	0.0	0.000	—	—	BACKFILLING EMPTYING FRAC TANK
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.020	—	—	"
1:00pm	0.0	0.500	—	—	"
2:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project:	Rogers Park Main		Sampling Location:	North	
Project #:	27194-4.07		Date:	9-11-01	
				Sampler:	Coverway Model 100
				Weather:	Sunny 80°
Time	PID Make: Pro Systems Model: Mini KAF 2000 ID: 110-002141	Dust Meter (mg/m ³) Make: MIE Model: Mini Part ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	No Activity
Noon	0.0	0.000	-	-	No Activity
1:00pm	0.0	0.000	-	-	No Activity
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Locations: South
Date: 9-11-01

sheet
Sampler: Courtney M. Arthoffon
Weather: Sunny 80°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 9-11-01

Sampler: Dorothy M. Antoniou
 Weather: Sunny 80°

Time	PID Make: <u>RHE SYSTEMS</u> Model: <u>Minivane 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>ME</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	No Activity
NOON	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 9-11-01

Sampler: Constance M. McHaffey
 Weather: Sunny 80°

Time	PID Make: <u>RAE Systems</u> Model: <u>Minirite 2000</u> ID: <u>110-00241</u>	Dust Meter (mg/m³) Make: <u>MIE</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	~	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	No Activity
NOON	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: NoRTH
 Date: 9-12-01

Sampler: COURTNEY WATKINS FOR
 Weather: Sunny 85°

Time	PID Make: <u>PS Systems</u> Model: <u>MINI PAC 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Minipak</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
NOON	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: SOUTH
Date: 9-12-01

Sampler: Catherine McHaffie
Weather: Sunny B50

Real-Time Ambient Air Sampling Field Data Sheet

Project: <u>Rogers Park Main</u>	Sampling Location: <u>EAST</u>	Sampler: <u>Courtney Marhofer</u>			
Project #: <u>27194-4.07</u>	Date: <u>9-12-01</u>	Weather: <u>Sunny 85°</u>			
Time	PID Make: <u>REESYSTEMS</u> Model: <u>MINI KAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>WIE</u> Model: <u>MINIKRM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 9-12-01

Sampler: Courtney MAR HOFFER
 Weather: Sunny 85°

Time	PID Make: RAE SYSTEMS Model: MINI RAE200 ID: 110-002141	Dust Meter (mg/m³) Make: WIE Model: Minicam ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING, SPECIAL WASTE
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: North
 Date: 9-13-01

Sampler: C Buettner 11 AirtoPark
 Weather: Sunny 70°
Cloudy, cool

Time	PID Make: <u>Ree Systems</u> Model: <u>MiniPCE 2000</u> ID: <u>110-002441</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: SOUTH
 Date: 9-13-01

Sampler: Courtney Metzger
 Weather: Cloudy, Cool 70°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>MINI RAE 2000</u> ID: <u>1100-052141</u>	Dust Meter (mg/m ³) Make: <u>WIE</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	EXCAVATING BRICK WASTE
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 9-13-01

Sampler: Governor Marquette
 Weather: Cool, Cloudy, Temp 70°

Time	PID Make: <u>DAS SYSTEMS</u> Model: <u>Minikane 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Minikam</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	-	-	EXCAVATING, SPECIAL WASTE
9:00 am	0.0	0.000	-	-	"
10:00 am	0.0	0.000	-	-	"
11:00 am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00 pm	0.0	0.000	-	-	"
2:00 pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 9-13-01

Sampler: Courtney Warthofer
 Weather: Cloudy, Cool 70°

Time	PID Make: <u>P&G Systems</u> Model: <u>Mini PID 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>WIE</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
NOON	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: Neet#

Date: 9-14-01

Sampler: Chukunway M. Fletcher
Weather: Shiny 65°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: Garrett
Date: 9-14-01

Sampler: Coverway Monitor
Weather: Sunny 65°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 9-14-01

Sampler: Courtney Martoff
 Weather: Sunny 65°

Time	PID Make: <u>RAE Systems</u> Model: <u>Minirae 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>NIE</u> Model: <u>Minirae</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING ASPHALT
9:00am	0.0	0.000	-	SLIGHT COAL TAKE	No Activity
10:00am	0.0	0.000	-	"	"
11:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
NOON	0.0	0.000	-	-	No Activity
1:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: WEST

Date: 9-14-01

Sampler: Conway Monitorer

Weather: Sunny 65°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>Mini RAE 2000</u> ID: <u>10-002141</u>	Dust Meter (mg/m³) Make: <u>MIE</u> Model: <u>mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	—	—	EXCAVATING ASPHALT
9:00 am	0.0	0.000	—	—	
10:00 am	0.0	0.000	—	—	No Activity "
11:00 am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
Noon	0.0	0.000	—	—	
1:00 pm	0.0	0.000	—	—	No Activity EXCAVATING SPECIAL WASTE
2:00 pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: NORTH
 Date: 9-17-01

Sampler: COURTNEY MARSHALL
 Weather: Cloudy, RAIN 70°

Time	PID Make: <u>RAE Systems</u> Model: <u>MiniRAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Minikam</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	REMOVING PAVERS FOR DEMO
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000 Hearing there was visible dust blowing away from me (to North) from the building demo.	-	-	Building Demo
11:00am	0.0	0.000	-	-	LOADING SPECIAL WASTE
Noon	-	-	-	-	RAIN
1:00pm	-	-	-	-	RAIN
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Project #: 27194-4 07

Sampling Location: SOUTH

Date: 9-17-01

Sample

Weather: Cloudy 70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 9-17-01

Sampler: Concreney M-Air 1000
 Weather: Cloudy 70°
RAIN

Time	PID Make: <u>RAE Systems</u> Model: <u>MINI RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>ME</u> Model: <u>Miniram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	PREPARING BUILDING FOR DEMO.
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	BUILDING DEMO
11:00am	0.0	0.000	-	-	CONTINUING SPECIAL WASTE
NOON	-	-	-	-	RAIN
1:00pm	-	-	-	-	RAIN
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 9-17-01

Sampler: Courtney M. Rutherford
 Weather: Cloudy 70° Rain

Time	PID Make: RAE SYSTEMS Model: Mini RAE 2000 ID: 110-002141	Dust Meter (mg/m³) Make: MIE Model: Mini RAM ID: 62067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	PREPARING BUILDING FOR DEMO.
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	BUILDING DEMO LOADING SPECIAL WASTE
NOON	—	—	—	—	RAIN
1:00pm	—	—	—	—	RAIN
2:00pm	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: NORTH
 Date: 9-18-01

Sampler: Courtney M. Metzger
 Weather: Humid, Cool 70°
Fog

Time	PID Make: RAE SYSTEMS Model: MiniKAF 2000 ID: 110-002141	Dust Meter (mg/m ³) Make: MIE Model: MiniRAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	LOADING FABRICS BUILDING REMAINS
9:00am	0.0	0.500	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	No Activity
1:00pm	0.0	0.000	—	—	LOADING SPECIAL WASTE
2:00pm	0.0	0.000	—	—	No Activity

Real-Time Ambient Air Sampling Field Data Sheet

Project:	Rogers Park Main	Sampling Location:	South	Sampler:	<i>Canyon Microtron</i>
Project #:	27194-4.07	Date:	9-18-01	Weather:	<i>Humid Cool 70° Fog</i>
Time	Maker <i>P&P SYSTEMS</i>	Dust Meter (mg/m ³) Make: MIE Model: MiniRAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	LOADING BUILDING KOMATI DESIGNS
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
NOON	0.0	0.000	-	-	No Activity
1:00pm	0.0	0.000	-	-	LOADING SPECIAL MADE
2:00pm	0.0	0.000	-	-	No Activity

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: EAST
Date: 9-18-01

Sampler: Connervey W. Martenspor
Weather: fog, cool, 70°

Time	PID Make: RAE Systems Model: MiniPAE2000 ID: 110-002141	Dust Meter (mg/m³) Make: MIE Model: MiniRAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	LOADING BURROWING ROUTINES DEBRIS
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
NOON	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	No Activity LOADING SODA WASH
2:00pm	0.0	0.000	-	-	No Activity

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: West
 Date: 9-18-01

Sampler: Courtney M Archoff
 Weather: Fog, cool, 70°

Time	Make: Model: ID:	Dust Meter (mg/m ³)	Benzene (ppm)	Odors	Remarks
8:00am	PDI RAE Systems Mini KAE 200 ID: 110-002141	0.0	0.000	-	loading, parking
9:00am	0.0	0.000	-	-	removing debris
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	No Activity
1:00pm	0.0	0.000	-	-	loading
2:00pm	0.0	0.000	-	-	SPECIAL WASTE
					No Activity

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: NORTH

Date: 9-19-01

Sampler: Constance Marchman
Weather: Rain -70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location On the

Date: 9-9-01

Sampler: Caren von Metzger

Weather: Rain / 70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: EAST
Date: 9-19-01

Sampler: Courtney W. M. Ritter
Weather: Rain 70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: WEST
Date: 9-19-01

Sampler: Courtney Metzger
Weather: Rain 70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: NORTH

Date: 9-20-01

Sampler: Conway/Harper

Weather: Sunny 70°

Time	PID Make: <u>RAE Systems</u> Model: <u>Mini RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>WIE</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	—	—	LORING SPECIAL WASTE
9:00 am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
10:00 am	0.0	0.000	—	—	"
11:00 am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00 pm	0.0	0.000	—	—	"
2:00 pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: SOUTH
 Date: 9-20-01

Sampler: Casemay W. McHorter
 Weather: Sunny 70°

Time	PID Make: <u>PRE SYSTEMS</u> Model: <u>Minirae 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>NIE</u> Model: <u>Minirae</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	Lofting SPECIAL WASTE
9:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: _____ Rogers Park Main

Project #: 27194-4.07

Sampling Location: EAST
Date: 9-20-01

Sampler: Courtney Hartzer
Weather: Sunny / 70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: WEST
Date: 9-20-01

Sampler: Courtney Marthaon
Weather: Sunny 70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: North
Date: 9-21-01

Sampler: Corynay M. Hartman
Weather: Partly Cloudy 70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: South

Date: 9-24-01

Sample

Weather

*Dorothy M. Horner
Dorothy Crowley '70*

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: EAST
Date: 9-21-01

Sheet
Sampler: Caverney W. Wetmore
Weather: Precip. Caverney 70°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Mats

Project #: 27194-4.07

Sampling Location: West
Date: 9-21-01

Sample

Weather

Canyon Mtns
Perry County 70

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Maln
 Project #: 27194-4.07

Sampling Location: NORTH
 Date: 9-24-01

Sampler: COURTNEY MARHOER
 Weather: Cloudy Cool 55°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>MINI RAE 2000</u> ID: <u>110-00241</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>MinIRAM</u> ID: <u>DZ067</u>	Benzene (ppm)	Odors	Remarks
8:00 am	0.0	0.000	-	-	LOADING SPECIAL WASTE.
9:00 am	0.0	0.000	-	-	"
10:00 am	0.0	0.000	-	-	"
11:00 am	0.0	0.000	-	-	"
NOON	0.0	0.000	-	-	"
1:00 pm	0.0	0.000	-	-	"
2:00 pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: SOUTH

Date: 9-24-01

Sampler: Courtney M. Hooper

Weather: Cloudy Cool 55°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>Mini RAE 2000</u> ID: <u>110-DDZ141</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Mini Rpm</u> ID: <u>0002702067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	
9:00am	0.0	0.000	-	-	LOADING SPECIAL WASTE
10:00am	0.0	0.000	-	SLIGHT CARBON TARE	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	SLIGHT CARBON TARE	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: EAST

Date: 9-24-01

Sampler:

Courtney Marhofer
Courney Cool 55°

Weather:

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>MINIRAF 200</u> ID: <u>110-00441</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	LOADING SPECIAL WASTE
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: WEST
Date: 9-24-01

Sampler: Courtney Martensen
Weather: Cloudy Cool 55°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: NORTH
 Date: 9-25-01

Sampler: Courtney Martz
 Weather: Sunny ODL 55°

Time	PID Make: RAE Systems Model: Mini RAE2000 ID: 110-052141	Dust Meter (mg/m³) Make: MIE Model: Mini RAM ID: 02067	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	CONTAINING SPECIAL WASTE
9:00am	0.0	0.000	-	-	
10:00 am	0.0	0.000	-	-	No Activity EXCAVATING SPECIAL WASTE
11:00 am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: South

Date: 9-25-01

Sampler: Company Name

Weather: Cool Sunny 55°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: CAST

Project #: 27194-4.07

Date: 9-25-0

Sampler: Courtney Martofel
Weather: Cool Sunny 55°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WEST
 Date: 9-25-01

Sampler: COMPNEY W. ARTHUR
 Weather: Sunny, Cool 55°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>MINI RAE 2000</u> ID: <u>116002141</u>	Dust Meter (mg/m³) Make: <u>MYE</u> Model: <u>MINIRAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	LOTADING SPECIAL WASTE
9:00am	0.0	0.000	-	-	No Activity
10:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	"
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: North
Date: 9-26-01

Sampler: Dorothy M. Arthofer
Weather: COLD, OVERCAST 55°

Time	PID Make: <u>RAE Systems</u> Model: <u>Mini RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>ME</u> Model: <u>Mini Rdm</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	—	—	MOVING BUILDING DEBRIS
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	"
1:00pm	0.0	0.000	—	—	"
2:00pm	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
3:00pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: SOUTH
 Date: 9-26-01

Sampler: Conneren Wachoffer
 Weather: Cool, Overcast 55°

Time	PID Make: <u>KAF SYSTEMS</u> Model: <u>MiniPac 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>NIE</u> Model: <u>Miniram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	Moving buildings DEBRIS
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 9-26-01

Sampler: Corynne Martzoff
 Weather: COOL, CLEAR DAY 55°

Time	PID Make: <u>PFE SYSTEMS</u> Model: <u>Mini PFE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Mini Rotam</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	MOVING BUILDINGS DEBRIS
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
NOON	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
Project #: 27194-4.07

Sampling Location: West
Date: 9-26-01

Sampler: Courtney Marttinen
Weather: Cool, December 55.

Time	PID Make: <u>KAESCHMANS</u> Model: <u>Mini RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m³) Make: <u>WIE</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:00am	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
9:00am	0.0	0.000	-	-	MANUFACTURING BUILDINGS DUST
10:00am	0.0	0.000	-	-	"
11:00am	0.0	0.000	-	-	"
Noon	0.0	0.000	-	-	"
1:00pm	0.0	0.000	-	-	"
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
3:00pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: North
 Date: 9-27-01

Sampler: Conway/Hartman
 Weather: Cool, Sunny 65°

Time	PID Make: <u>RATONSTEIN</u> Model: <u>MINIRAF-200</u> ID: <u>110-002441</u>	Dust Meter (mg/m ³) Make: <u>MIE</u> Model: <u>MINIRAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
7:30am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
8:00am	0.0	0.000	—	SUGHT	"
8:30am	0.0	0.000	—	—	"
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	No Activity
1:00pm	0.0	0.000	—	—	REMOVING FENCE POSTS
2:00pm	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
2:30pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: South
 Date: 9-27-01

Sampler: Christine Martoza
 Weather: Cool, Sunny 65°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>Mini RAE 200</u> ID: <u>11D-202141</u>	Dust Meter (mg/m³) Make: <u>MIE</u> Model: <u>Mini RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
8:30am	0.0	0.000	-	-	EXCAVATING SPECIALLY MADE
8:40am	0.0	0.000	-	SLIGHT	"
8:50am	0.0	0.000	-	-	"
9:00am	0.0	0.000	-	-	"
10:00am	0.0	0.000	-	-	"
11:00am	0.0	6.000	-	-	"
Noon	0.0	0.000	-	-	No Activity
1:00pm	0.0	6.000	-	-	REMOVING FENCE POSTS
2:00pm	0.0	0.000	-	-	EXCAVATING SPECIAL WASTE
2:30pm	0.0	0.000	-	-	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: EAST
 Date: 9-27-01

Sampler: Courtney Marhoefer
 Weather: Cool, Snowy 65°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>MINI RAE 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>ME</u> Model: <u>Mini Ram</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
7:30am	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
8:00am	0.0	0.000	—	SLIGHT	"
8:30am	0.0	0.000	—	—	"
9:00am	0.0	0.000	—	—	"
10:00am	0.0	0.000	—	—	"
11:00am	0.0	0.000	—	—	"
Noon	0.0	0.000	—	—	No Activity
1:00pm	0.0	0.000	—	—	removing fence posts
2:00pm	0.0	0.000	—	—	EXCAVATING SPECIAL WASTE
2:30pm	0.0	0.000	—	—	"

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main
 Project #: 27194-4.07

Sampling Location: WESP
 Date: 9-27-01

Sampler: Courtney Martzhofer
 Weather: Cool Shiny 65°

Time	Make: Model: ID:	Dust Meter (mg/m³) Make: Model: ID:	Benzene (ppm)	Odors	Remarks
7:30am	PID RPF SYSTEM MINIKAT 2000 110002141	0.0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	— — — — — — — — — — — — — — — —	— SLIGHT — — — — — — — — — — — — — —	EXCAVATING SPECIAL WASTE " " " " " " " " " " " " No ACTIVITY REMOVING FENCE POSTS EXCAVATING SPECIAL WASTE "
8:00am					
8:30am					
9:00am					
10:00am					
11:00am					
Noon					
1:00pm					
2:00pm					
2:30pm					

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: NDKTH

Sampler: GEORGE PIUTA

Project #: 27194-4.07

Date: 9-28-01

Sample: Geekat F13A
Weather: Cloudy 58-67°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: SOUTH

Date: 9-28-01

Sampler: GEORGE PILIA

Weather: CLOUDY 58-67°

Time	PID Make: <u>RAE SYSTEMS</u> Model: <u>MINI PAK 2000</u> ID: <u>110-002141</u>	Dust Meter (mg/m ³) Make: <u>NIE</u> Model: <u>MINI RAM</u> ID: <u>02067</u>	Benzene (ppm)	Odors	Remarks
7:45	0.0	0.00			EXCAVATING & LOADING SPECIAL WASTE TO GRAVITY SITE
8:15	0.0	0.00			
9:30	0.0	0.00			GRAVITY
11:00	0.0	0.00			EXCAVATING GRAVITY
1:00 PM	0.0	0.00			EXCAVATING STENON HAZ WASTE, TRUCK LOADING!
2:00 PM	0.0	0.00			
3:00 PM	0.0	0.00			
3:45 PM	0.0	0.00			GRAVITY

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Project #: 27194-4.07

Sampling Location: EAST

Date: 9-28-01

Sampler: GEORGE PILATA

Weather: CLOUDY SB-67°

Real-Time Ambient Air Sampling Field Data Sheet

Project: Rogers Park Main

Sampling Location: WEST

Sampler: GEORGE PIESA

Project #: 27194-4.07

Date: 9-28-01

Weather: CLOUDY 58-67°

Time	PID Make: Model: ID:	Dust Meter (mg/m ³) Make: Model: ID:	Benzene (ppm)	Odors	Remarks
7:45	0.0	0.00			EXCAVATING PILEDRIVING SPECIAL WASTE, GRADING SITE
8:15	0.0	0.00			GRADING
9:30	0.0	0.00			GRADING
11:00	0.0	0.00			EXCAVATING
1:00	0.0	0.00			NOX HAZ. WASTE TRUCK LOADING
2:00	0.0	0.00			GRADING
3:00	0.0	0.00			
3:45	0.0	0.00			

A.C. O.2

Rogers Park Main Real Time Instrument Calibration Log

Project: Rogers Park Main

Instrument: MiniRae 2000

Project #: 27194-4.07

Manufacturer: Rae Systems, Inc

Serial No.:

110-002141

110-001464
20750

Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading (ppm) or (%)	Calibration Notes and Comments
7/19	7:15am	Humid, Sunny, Hot	Isobutylene	100 ppm	✓	0.0 ppm	
7/20	9:15am	Hot, Sunny, Hazy	Isobutylene	100 ppm	✓	0.0 ppm	
7/23	7:00am	Hot, Sunny, Hazy	Isobutylene	100 ppm	✓	0.0 ppm	
7/24	6:55am	Hot, Sunny, Hazy	Isobutylene	100 ppm	✓	0.0 ppm	
7/25	7:10am	Rain, Cloudy, Mild	Isobutylene	99.3 ppm	✓	0.0 ppm	
7/26	7:00am	Sunny, Mild	Isobutylene	100 ppm	✓	0.0 ppm	
7/27	7:15am	Sunny, 70°F	Isobutylene	100 ppm	✓	0.0 ppm	
7/30	7:00am	Cloudy, HOT	Isobutylene	100 ppm	✓	0.0 ppm	
7/31	7:00am	Hot, Sunny, Heat Haze	Isobutylene		==	0.0 ppm	Not Functioning
8/1	7:06am	Hot, Sunny, Heat Haze	Isobutylene		==	0.0 ppm	Not Functioning
8/2	7:30am	Rain, HOT	Isobutylene	100 ppm	✓	0.0 ppm	
8/3	6:50am	Cloudy, Humid, HOT	Isobutylene	100 ppm	✓	0.0 ppm	
8/4	6:45am	Hot, Sunny, 95°	Isobutylene	99.9 ppm	✓	0.0 ppm	
8/7	6:55am	Hot, Sunny, 95°	Isobutylene	100 ppm	✓	0.0 ppm	
				100 ppm		0.0 ppm	

Rogers Park Main

Real Time Instrument Calibration Log

Project: Rogers Park Main

Instrument: MiniRae 2000

Project #: 27194-4.07

Manufacturer: Rae Systems, Inc

Serial No.: 110-002141



Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading (ppm or %)	Calibration Notes and Comments
8/8	7:00am	Hot 95° Snowy	Isobutylene	100 ppm	✓	0.0 ppm	
8/9	7:00am	Hot 95° Snowy	Isobutylene	100 ppm	✓	0.0 ppm	
8/10	7:15am	MILD 75° Snowy	Isobutylene	100 ppm	✓	0.0 ppm	
8/13	7:00am	MILD 80° Overcast	Isobutylene	100 ppm	✓	0.0 ppm	
8/14	7:15am	Snowy 78°	Isobutylene	100 ppm	✓	0.0 ppm	
8/15	7:30am	Snowy 80°	Isobutylene	100 ppm	✓	0.0 ppm	
8/16	7:50am	RAIN 75°	Isobutylene	100 ppm	✓	0.0 ppm	
8/17	7:05am	Sunny 80° 75°	Isobutylene	100 ppm	✓	0.0 ppm	
8/20	7:50am	Snowy 75°	Isobutylene	100 ppm	✓	0.0 ppm	
8/21	7:00am	Snowy 82°	Isobutylene	100 ppm	✓	0.0 ppm	
8/22	7:05am	Cloudy, Rain Humid 80°	Isobutylene	100 ppm	✓	0.0 ppm	
8/23	7:40am	Cloudy, Rain Humid 75°	Isobutylene	100 ppm	✓	0.0 ppm	
8/24	7:10am	Sunny 80°	Isobutylene	100 ppm	✓	0.0 ppm	
8/27	7:20am	Snowy 80°	Isobutylene	100 ppm	✓	0.0 ppm	

Rogers Park Main
Real Time Instrument Calibration Log

Project: Rogers Park Main

Instrument: MiniRae 2000

Project #: 27194-4.07

Manufacturer: Rae Systems, Inc

Serial No.: 110-002141



Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading (ppm or %)	Calibration Notes and Comments
8/28	7:45am	Sunny 80°	Isobutylene	100 ppm	✓	0.0 ppm	
8/29	7:45am	Sunny 80°	Isobutylene	100 ppm	✓	0.0 ppm	
8/30	6:50am	Sunny 85°	Isobutylene	100 ppm	✓	0.0 ppm	
8/31/01	7:10am	Sunny 70°	Isobutylene	101 ppm	✓	0.1 ppm	
9/1/01	7:00am	Sunny 75°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:00am	Sunny 75°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:30am	Partly cloudy 80°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:30am	Partly cloudy 85° 100°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:30am	Sunny 75°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:30am	Sunny 75°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:25am	Sunny 80°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:25am	Sunny 85°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:30am	Sunny 70°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	7:30am	Sunny 65°	Isobutylene	100 ppm	✓	0.0 ppm	
9/1/01	6:40am	Sunny 70°	Isobutylene	100 ppm	✓	0.0 ppm	

Rogers Park Main Real Time Instrument Calibration Log

Project: Rogers Park Main

Instrument: MiniRae 2000

Project #: 27194-4.07

Manufacturer: Rae Systems, Inc

Serial No.: 110-002141



Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading (ppm or %)	Calibration Notes and Comments
9/18	6:30am	Humid, cool 70°	Isobutylene	100ppm	✓	0	
9/19	7:00am	Rainy 70°	Isobutylene	100ppm	✓	0	
9/20	7:00am	Sunny 70°	Isobutylene	100ppm	✓	0	
9/24	7:25am	Cloudy cool 55°	Isobutylene	100ppm	✓	0	
9/25	7:30am	Cool sunny 55°	Isobutylene	100ppm	✓	0	
9/26	7:30am	Cool partly cloudy 55°	Isobutylene	100ppm	✓	0	
9/27	7:30am	Cool sunny 65°	Isobutylene	100ppm	✓	0	
9/28	7:30am	Sunny 70°	Isobutylene	100ppm	✓	0	
10/1	7:30am	Sunny 70°	Isobutylene	100ppm	✓	0	
			Isobutylene				
			Isobutylene				
			Isobutylene				
			Isobutylene				
			Isobutylene				

A.C. 0.15

Rogers Park Main Real Time Instrument Calibration Log

Project: Rogers Park Main

Instrument: MiniRam

Project #: 27194-4.07

Manufacturer: MIE

Serial No.: 02067



Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading ^{mg/m³} (ppm or %)	Calibration Notes and Comments
7/19	10:30	Sunny	-	-	✓	0.00	
7/20	7:30	Hot, Humid	-	-	✓	0	
7/23	7:05	Hot, Sunny, Windy, Hazy	-	-	✓	0	
7/24	6:45	Hot, Sunny, Windy, Hazy	-	-	✓	0	
7/25	7:05	Rain, Cloudy, Mild	-	-	✓	0	
7/26	7:20am	Sunny, Mild	-	-	✓	0	
7/27	7:10Am	Sunny, 70°	-	-	✓	0	Based on background at 0.000
7/30	7:30am	Sunny, Hot	-	-	✓	0	
7/31	7:00am	Sunny, Hot, Hazy	-	-	✓	0	
8/1	7:00am	Hot, Sunny, Haze, Warming	-	-	✓	0	
8/2	7:15	Rain, Hot	-	-	✓	0	
8/3	6:50am	Cloudy, Hazy, Hot	-	-	✓	0	
8/6	6:50am	Hot, 90°	-	-	✓	0	
8/7	6:55am	Hot, 95°	-	-	✓	0	

Rogers Park Main
Real Time Instrument Calibration Log

Project: Rogers Park Main

Instrument: MiniRam

Project #: 27194-4.07

Manufacturer: ME

Serial No.: 02067



Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading (ppm or %) <i>mg/m³</i>	Calibration Notes and Comments
8/8	7:00am	Hot 95° Snowy	—	—	✓	0	
8/9	7:00am	Hot 95° Snowy	—	—	✓	0	
8/10	7:15am	MILD 75° Snowy	—	—	✓	0	
8/13	7:00am	MILD 80° OVERCAST	—	—	✓	0	
8/14	7:15am	Snowy 78°	—	—	✓	0	
8/15	7:30am	Snowy 80°	—	—	✓	0	
8/16	7:50am	RAIN 75°	—	—	✓	0	
8/17	7:05am	Snowy 80°	—	—	✓	0	
8/20	7:15am	Snowy 75°	—	—	✓	0	
8/21	7:00am	Snowy 82°	—	—	✓	0	
8/22	7:05am	CLOUDY, RAIN HUMID 80°	—	—	✓	0	
8/23	7:00am	CLOUDY, RAIN HUMID 75°	—	—	✓	0	
8/24	7:10am	Snowy 80°	—	—	✓	0	
8/27	7:20am	Snowy 80°	—	—	✓	0	

Rogers Park Main
Real Time Instrument Calibration Log

Project: Rogers Park Main

Instrument: MiniRam

Project #: 27194-4.07

Manufacturer: MIE

Serial No.: 02067



Date	Time	Weather Conditions	Gas STD (Name)	STD Conc. (ppm or %)	Zero Check	Meter Reading (ppm or %) ^(100%)	Calibration Notes and Comments
8/28	7:45am	Sunny 80°	—	—	✓	0	
8/29	7:45am	Sunny 80°	—	—	✓	0	
8/30	6:50am	Sunny 85°	—	—	✓	0	
8/31	6:50am	Sunny 70°	—	—	✓	0	
9/4	7:00am	Sunny 75°	—	—	✓	0	
9/5	7:00am	Sunny 75°	—	—	✓	0	
9/6	7:30am	Sunny Partly cloudy 80°	—	—	✓	0	
9/7	7:30am	Partly cloudy 85°	—	—	✓	0	
9/10	7:30am	Sunny 75°	—	—	✓	0	
9/11	7:25am	Sunny 80°	—	—	✓	0	
9/12	7:25am	Sunny 85°	—	—	✓	0	
9/13	7:30am	Sunny 70°	—	—	✓	0	
9/14	7:30am	Sunny 65°	—	—	✓	0	
9/17	6:40am	Sunny 70°	—	—	✓	0	

Rogers Park Main Real Time Instrument Calibration Log

Project: Rogers Park Main

Project #: 27194-4.07

Instrument: MiniRam

Manufacturer: MIE

Serial No.: 02067



Ambient Air Sampling Field Data Sheet

Project Name: Rogers Park Main - Peoples Gas

Project Number: 27194-4.07

Weather Conditions:

Date: 7-26-01

Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes

Sampler: Carenway Wirthozer

NOTES:

- (1) Benzene tubes readings only required if fence line readings for PID exceed action level of 236 ppb.
 - (2) Engineering controls required when dust levels exceed .015 mg/m³.
 - (3) Corrective Actions are as follows:
 - A. Foamed excavated area.
 - B. Re-sampled and found new levels below action levels.
 - C. Upgraded to level C.
 - D. Contacted project manager.
 - E. Shut-down project.
 - F. Below background results at specified location: no action taken.

Ambient Air Sampling Field Data Sheet

Project Name: Rogers Park Main - Peoples Gas

Project Number: 27194-4.07

Weather Conditions: HEAT WARNING, heat index 105°-110°, sunny
Date: 8-1-01

Date: 8-1-01

Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes

Sampler: Carenay Wettberg

NOTES:

- (1) Benzene tubes readings only required if fence line readings for PID exceed action level of 236 ppb.
(2) Engineering controls required when dust levels exceed .015 mg/m³.
(3) Corrective Actions are as follows;

 - A. Foamed excavated area.
 - B. Re-sampled and found new levels below action levels.
 - C. Upgraded to level C.
 - D. Contacted project manager.
 - E. Shut-down project.
 - F. Below background results at specified location: no action taken.

Ambient Air Sampling Field Data Sheet

Project Name: Rogers Park Main - Peoples Gas

Project Number: 27194-4.07

Weather Conditions: HEAVY RAIN, LIGHTENING, HOT

Date: 8-2-01

Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes

Sampler: Courtney Marttelaer

NOTES²

- (1) Benzene tube readings only required if fence line readings for PID exceed action level of 236 ppb.
 - (2) Engineering controls required when dust levels exceed .015 mg/m³.
 - (3) Corrective Actions are as follows:
 - A. Foamed excavated area.
 - B. Re-sampled and found new levels below action levels.
 - C. Upgraded to level C.
 - D. Contacted project manager.
 - E. Shut-down project.
 - F. Below background results at specified location; no action taken.

Ambient Air Sampling Field Data Sheet

Project Name: Rogers Park Main - Peoples Gas

Project Number: 27194-4.07

Weather Conditions: Hot, Humid, Cloudy

Date: 8-3-01

Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes

Sampler: Carenwon MARHOEFER

NOTES:

- (1) Benzene tubes readings only required if fence line readings for PID exceed action level of 236 ppb.
(2) Engineering controls required when dust levels exceed .015 mg/m³.
(3) Corrective Actions are as follows;

 - A. Foamed excavated area.
 - B. Re-sampled and found new levels below action levels.
 - C. Upgraded to level C.
 - D. Contacted project manager.
 - E. Shut-down project.
 - F. Below background results at specified location: no action taken.

Ambient Air Sampling Field Data Sheet

Project Name: Rogers Park Main - Peoples Gas

Project Number: 27194-4.07

Weather Conditions: Hot, Sunny, 90°

Date: 8-6-5

Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes

Sampler: Cemrenew Mastroeffe

NOTES:

- (1) Benzene tubes readings only required if fence line readings for PID exceed action level of 236 ppb.
(2) Engineering controls required when dust levels exceed .015 mg/m³.
(3) Corrective Actions are as follows;

 - A. Foamed excavated area.
 - B. Re-sampled and found new levels below action levels.
 - C. Upgraded to level C.
 - D. Contacted project manager.
 - E. Shut-down project.
 - F. Below background results at specified location: no action taken.

Ambient Air Sampling Field Data Sheet

Project Name: Rogers Park Main - Peoples Gas

Project Number: 27194-4.07

Weather Conditions: Hot, Sunny, 95° Heat Index 105°
Date: 8-7-21

Date: 8-7-01

Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes

Sampler: Conrad Maertens

NOTES:

- (1) Benzene tubes readings only required if fence line readings for PID exceed action level of 238 ppb.
 - (2) Engineering controls required when dust levels exceed .015 mg/m³.
 - (3) Corrective Actions are as follows;
 - A. Foamed excavated area.
 - B. Re-sampled and found new levels below action levels.
 - C. Upgraded to level C.
 - D. Contacted project manager.
 - E. Shut-down project.
 - F. Below background results at specified location: no action taken.

Ambient Air Sampling Field Data Sheet

Project Name: Rogers Park Main - Peoples Gas

Project Number: 27194-4.07

Weather Conditions:

Date: B-8-01

Air Monitoring Equipment Used MiniRae 2000, MiniRam, Drager Tubes

Sampler: Constance Wettwer

NOTES:

- (1) Benzene tubes readings only required if fence line readings for PID exceed action level of 236 ppb.
(2) Engineering controls required when dust levels exceed .015 mg/m³.
(3) Corrective Actions are as follows;

 - A. Foamed excavated area.
 - B. Re-sampled and found new levels below action levels.
 - C. Upgraded to level C.
 - D. Contacted project manager.
 - E. Shut-down project.
 - F. Below background results at specified location; no action taken.

APPENDIX D
AMBIENT AIR ACTION LEVEL CALCULATIONS

Table D-1
Values Used For Allowable Concentration at Receptor
Rogers Park Pond Parcel

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface/Subsurface Soil
Exposure Point: Surface Soil
Receptor Population: Residential User
Receptor Age: Child/Adult

Exposure Route	Parameter Code	Parameter Definition	Units	Value	Rationale/Reference	Intake Equation
Inhalation	IRn	Inhalation Rate (Non-Cancer)*	m ³ /hr	0.81	USEPA 1997	Non-Cancer Equation:
	IRC	Inhalation Rate (Cancer)**	m ³ /hr	1.9	USEPA 1997	Allowable Concentration at Receptor (Cb,r) (ug/m ³) =
	EF	Exposure Frequency	days/year	40	USEPA 1991	(TRn x BWn x ATn x TDn x 1000ug/mg)/(EF x ED x IRn)
	ED	Exposure Duration	years	1	USEPA 1991	
	TRc	Target Risk (Cancer)	unitless	0.0000010	Assumed	
	TRn	Target Risk (Non-Cancer)	unitless	0.3	Assumed	Cancer Equation:
	BWc	Body Weight (Cancer)	kg	70	USEPA 1991	Allowable Concentration at Receptor (Cb,r) (ug/m ³) =
	BWn	Body Weight (Non-Cancer)	kg	15	USEPA 1991	(TRc x BWc x ATc X 1000ug/mg)/(EF x ED x TDc x IRC)
	ATc	Averaging Time (Cancer)	days	25,550	USEPA 1991	
	ATn	Averaging Time (Non-Cancer)	days	365	USEPA 1991	
	TDc	Toxicity Data (Cancer)	(kg-day/mg)	See Table D-3		
	TDn	Toxicity Data (Non-Cancer)	(mg/kg-day)	See Table D-2		

SOURCES:

Illinois EPA 2001: Title 35: Environmental Protection, Subtitle G, Chapter I, Subchapter f, Part 742: Tiered Approach to Corrective Action Objectives (TACO), Appendix C, Table B.

USEPA 1991: Risk Assessment Guidance for Superfund, Vol.1: Human Health Evaluation Manual - Supplemental Guidance, Standard Default Exposure Factors. Interim Final. OSWER Directive 9285.6-03, March 15.

USEPA 1993: Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure, November 4.

USEPA 1997: Exposure Factors Handbook: Volume I - General Factors, August.

NOTES:

* Inhalation Rate used in non-cancer intake equation was calculated assuming residential exposure of 0-6 year old child to outdoor air for 8 hours/day (IRn = 6.48 m³/day) based on the 1997 Exposure Factor Handbook.

** Inhalation Rate used in cancer intake equation was calculated assuming residential exposure of an adult to outdoor air for 8 hours/day (IRC = 15.2 m³/day) based on the 1997 Exposure Factor Handbook.

Table D-2
Non-Cancer Toxicity Data -- Inhalation
Rogers Park Pond Parcel

Chemical of Potential Concern	Chronic/Subchronic	Adjusted Inhalation RfD	Units	Primary Target Organ	Sources of RfC:RfD/Target Organ	Dates (1) (MM/DD/YY)
Benzene	Chronic	1.7E-03	mg/kg-day	Hematological	USEPA Region III, TACO	10/23/01
Toluene	Chronic	1.14E-01	mg/kg-day	CNS	USEPA Region III/IRIS, USEPA	10/23/01
Ethylbenzene	Chronic	2.9E-01	mg/kg-day	Developmental	Region III/IRIS,	10/23/01

NOTES:

(1) Date of most recent search of IRIS/USEPA Region III.

IRIS = Integrated Risk Information System

TACO = Illinois EPA Tiered Approach to Corrective Action Objectives

Table D-3
Cancer Toxicity Data -- Inhalation
Rogers Park Pond Parcel

Chemical of Potential Concern	Inhalation Cancer Slope Factor	Units	Weight of Evidence/Cancer Guideline Description	Source	Date (2) (MM/DD/YY)
Benzene	2.9E-02	(mg/kg-day) -1	A	IRIS	10/23/01

NOTES:

NA = Not available.

IRIS = Integrated Risk Information System

(2) Date of most recent search of IRIS.

EPA Group:

A - Human carcinogen

B1 - Probable human carcinogen - indicates that limited human data are available

B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans

C - Possible human carcinogen

D - Not classifiable as a human carcinogen

E - Evidence of noncarcinogenicity

Table D-4
Allowable Vapor Concentration at Source
Rogers Park Pond Parcel

Equation 1:

$$ER^* = C_{b,r} \times W,r \times H_{b,r} \times U_{m,r}$$

Equation 2:

$$C_{b,s}^* = ER / (W,s \times H_{b,s} \times U_{m,s})$$

Where:

ER = Emission rate (ug/s)

C_{b,r} = Allowable vapor concentration in box at receptor location (ug/m³)

W,r = Width of box from source area to receptor location (m)

H_{b,r} = Mixing height in box at receptor location (m)

C_{b,s} = Allowable vapor concentration in box at source (ug/m³)

W,s = Width of box at source area (m)

H_{b,s} = Mixing height in box at source (m)

U_{m,r} or s* = Wind speed in mixing zone (m/s)

Where:

$$U_{m,r} \text{ or } s = 0.228 \times U_{10} \times \ln(2.5 \times H_{b,r} \text{ or } s)$$

U₁₀ is windspeed at 10 m elevation (m/s)

Variable Values:

C_{b,r} = Calculated

W,r = 122.0 m (distance from source to nearest residence)

H_{b,r} = 7.2 m (corresponding height based on box length)

W,s = 38.1 m (125 ft)

H_{b,s} = 2.95 m (corresponding height based on box length)

U₁₀ = 4.69 m/s (IEPA, 2001)

U_{m,r} = 3.1 m/s (calculated)

U_{m,s} = 2.1 m/s (calculated)

Chemical	C _{b,r} (ug/m ³)	ER (ug/s)	C _{b,s} (ug/m ³)
Benzene	1.08E+001	2.92E+004	1.24E+002
Ethylbenzene	1.84E+003	4.99E+006	2.12E+004
Toluene	7.22E+002	1.96E+006	8.33E+003
Xylenes (Total)	--	--	--

NOTES:

*Gas Research Institute, 1988. Management of Manufactured Gas Plant Sites, Volume III: Risk Assessment.

GRI-87/0260.3.

Illinois EPA 2001: Title 35: Environmental Protection, Subtitle G, Chapter I, Subchapter f, Part 742: Tiered Approach to Corrective Action Objectives (TACO).

Table D-5
Allowable Chemical Vapor Concentrations
Rogers Park Pond Parcel

Chemical	Vapor Concentration at Receptor ($\mu\text{g}/\text{m}^3$)		Vapor Concentration at Source ($\mu\text{g}/\text{m}^3$)		Action Level* ($\mu\text{g}/\text{m}^3$)	Action Level* (ppb)
	Noncancer Effects ¹	Cancer Effects ²	Noncancer Effects ¹	Cancer Effects ²		
VOCs						
Benzene	10.8	101	124	1,165	124	39
Ethylbenzene	1,838	--	21,201	--	21,201	4,883
Toluene	722	--	8,330	--	8,330	2,211
Xylenes (Total)	--	--	--	--	--	--

Notes:

- ¹ - Vapor concentrations at receptor location for noncancer effects calculated assuming residential exposure of 0-6 year old child to outdoor air for 8 hours/day over a 40 day exposure period (inhalation rate = 0.81 m^3/hour , body weight = 15kg, target hazard index - 0.3).
- ² - Vapor concentrations at receptor location for cancer effects calculated assuming residential exposure of an adult to outdoor air for 8 hours/day over a 40 day exposure period (inhalation rate = 1.9 m^3/hour , body weight = 70kg, target cancer risk = 1E-06).
- * - Action level at the source is the lower calculated concentration between the noncancer and cancer effects.

Table D-6
Allowable Chemical Concentrations in Dust
Rogers Park Pond Parcel

Benzo(a)anthracene¹	
Dust Concentration in Ambient Air ($\mu\text{g}/\text{m}^3$)	Allowable Chemical Concentration in Dust ($\mu\text{g}/\text{kg}$)
15	321,488
50	96,446
100	48,223
150	32,149
200	24,112
250	19,289

Benzo(a)pyrene¹	
Dust Concentration in Ambient Air ($\mu\text{g}/\text{m}^3$)	Allowable Chemical Concentration in Dust ($\mu\text{g}/\text{kg}$)
15	32,149
50	9,645
100	4,822
150	3,215
200	2,411
250	1,929

Benzo(b)fluoranthene¹	
Dust Concentration in Ambient Air ($\mu\text{g}/\text{m}^3$)	Allowable Chemical Concentration in Dust ($\mu\text{g}/\text{kg}$)
15	321,488
50	96,446
100	48,223
150	32,149
200	24,112
250	19,289

Benzo(k)fluoranthene¹	
Dust Concentration in Ambient Air ($\mu\text{g}/\text{m}^3$)	Allowable Chemical Concentration in Dust ($\mu\text{g}/\text{kg}$)
15	3,214,876
50	964,463
100	482,231
150	321,488
200	241,116
250	192,893

Chrysene¹	
Dust Concentration in Ambient Air ($\mu\text{g}/\text{m}^3$)	Allowable Chemical Concentration in Dust ($\mu\text{g}/\text{kg}$)
15	184,833
50	55,450
100	27,725
150	18,483
200	13,862
250	11,090

Dibenz(a,h)anthracene¹	
Dust Concentration in Ambient Air ($\mu\text{g}/\text{m}^3$)	Allowable Chemical Concentration in Dust ($\mu\text{g}/\text{kg}$)
15	32,149
50	9,645
100	4,822
150	3,215
200	2,411
250	1,929

Pyrene²	
Dust Concentration in Ambient Air ($\mu\text{g}/\text{m}^3$)	Allowable Chemical Concentration in Dust ($\mu\text{g}/\text{kg}$)
15	12,673,611
50	3,802,083
100	1,901,042
150	1,267,361
200	950,521
250	760,417

Notes:

- ¹ - Allowable chemical concentrations in dust for carcinogenic PAHs calculated assuming residential exposure of an adult to outdoor air for 8 hours/day over a 40 day exposure period (inhalation rate = 1.9 m^3/hour , body weight = 70kg, target cancer risk = 1E-06).
- ² - Allowable chemical concentrations in dust for pyrene calculated assuming residential exposure of 0-6 year old child to outdoor air for 8 hours/day over a 40 day exposure period (inhalation rate = 0.81 m^3/hour , body weight = 15kg, target hazard index - 0.3).

APPENDIX E
CONSTRUCTION DAILY REPORTS

**Erosion and Sediment Control
Monitoring Report**
**ROGERS PARK SUB SHOP - SOUTH PARCEL
POND**

Erosion Sediment Control Report		Day <u>10</u> of Construction
		Date: <u>6-13-01</u> <u>WEDNESDAY</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <u>POND</u>	
Preparer's Name	<u>T. GASS</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If no, list controls not in place and provide an explanation why: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
Comments: <u>CONTINUED EXCAVATION IN LOGGING</u> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
Signature:	<u>T. GASS</u>	
	Date: <u>6-13-01</u>	

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL
BOND

Erosion Sediment Control Report		Day <u>17</u> of Construction
		Date: <u>6-14-01</u> THURSDAY
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <u>POND</u>	
Preparer's Name	<u>T. GASS</u>	
Title		
Project Status:		
Is the project proceeding according to schedule?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Discuss project status:		
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If no, list controls not in place and provide an explanation why:		
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
Comments:		
<u>CONTINUED EXCAVATION & LOADING</u> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
Signature: <u>J. D. Gass</u> Date: <u>6-14-01</u>		

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL
POND

Erosion Sediment Control Report		Day <u>18</u> of Construction
		Date: <u>6-15-01</u> FRIDAY
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois POND	
Preparer's Name	T.D. GASS	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: 		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>RAIN OVER NIGHT</u> <u>ALL SECTION RE-EXCAVATED - NO EXCAVATION</u> <u>UNTIL ANALYSIS IS DECEIVED.</u> <u>LOADING FROM SOOPILE</u> 		
Signature:	<u>T.D. Gass</u>	Date: <u>6-15-01</u>

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - ~~SOUTH~~ PARCEL
POND

MONDAY

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - SOUTH PARCEL
POND

WEDNESDAY

Erosion Sediment Control Report		Day <u>21</u> of Construction
		Date: <u>6-20-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <i>POND</i>	
Preparer's Name	<i>J. GASS</i>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input type="checkbox"/> No <input type="checkbox"/> Discuss project status: 		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <i>CONTINUED EXCAVATION & LOADING SOIL IN N.E. CORNER.</i> 		
Signature:	<i>T.D. Gass</i>	Date: <u>6-20-01</u>

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - ~~SOUTH PARCEL~~
~~POND~~

THURSDAY

Erosion Sediment Control Report		Day <u>22</u> of Construction Date: <u>6-21-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <u>POND</u>	
Preparer's Name	<u>D. SAETIC</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input type="checkbox"/> No <input type="checkbox"/> Discuss project status: 		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>PLACED GRAVEL OVER NE PARCEL, EXCAVATED "POND" AREA. COLLECTED SAMPLES @ RPP-CS02 RPP-CS05, RPP-CS01 RPP-CS07 AND RPP-CS04. STARTED EXCAVATING RPP-CS09. SOME BLACK SUBSTANCE PRESENT (ODOR). DISCOVERED CONCRETE BLOCK IN SECTION @ RPP-CS03 WITH STAINING AND ODOR. BLOCK IS APPROXIMATELY AT LEAST 5' bgs. NO PID READINGS AT RPP-CS03 AND RPP-CS09.</u>		
Signature: <u>D. Saetic</u>	Date: <u>6/21/01</u>	

Rogers Park, ~~South~~ ROR/RAP
~~POND~~

Page 1 of 1

~~May 2001~~
OCTOBER

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL

Pond

FRIDAY

Erosion Sediment Control Report		Day <u>7.3</u> of Construction
		Date: <u>6-22-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <i>Pond</i>	
Preparer's Name	D. SAFTIC	
Title		
Project Status:		
Is the project proceeding according to schedule?		Yes <input type="checkbox"/> No <input type="checkbox"/>
Discuss project status:		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time?		Yes <input type="checkbox"/> No <input type="checkbox"/>
If no, list controls not in place and provide an explanation why:		
Comments: <i>CONTINUED EXCAVATING "POND" PARCEL. ALLISON AND CHRIS (PEOPLES GAS) ON SITE WITH MARGARET KEELEY (BMO) TO LOOK AT EXCAVATION @ EAST. CONCERNED WITH CONCRETE FOOTINGS FOUND WHILE EXCAVATING NEAR RPP- C5003 (STRONG ODOOR). WAITING FOR DECISION ON HOW TO PROCEED WITH CONCRETE FOOTINGS. COLLECTED GW SAMPLES @ SITE.</i>		
Signature: <i>D. SAFTIC</i>		Date: <u>6/22/01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL
POND

MONOAM

Erosion Sediment Control Report		Day <u>24</u> of Construction
		Date: <u>6-25-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <i>Pond</i>	
Preparer's Name	<u>T. HASS</u>	
Title		
Project Status:		
Is the project proceeding according to schedule?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Discuss project status:		
<i>80° - SUNNY - Open</i>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time?		Yes <input type="checkbox"/> No <input type="checkbox"/>
If no, list controls not in place and provide an explanation why:		
Comments: <i>CONTINUED EXCAVATION & LOADING FROM WEST PARCEL. RE-excavation OF EAST SECTION & SAMPLING OF RMP-CS-02-002 TRUCKS RETURNING w/ CA-60 concrete FOR EAST Parking Area</i>		
Signature:	<i>T.D.L.</i>	Date: <u>6-25-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL

TUESDAY

Erosion Sediment Control Report		Day <u>25</u> of Construction
		Date: <u>6-26-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <i>POND</i>	
Preparer's Name		
Title		
Project Status:		
Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Discuss project status: <i>80° - Sunny - Dry</i>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
If no, list controls not in place and provide an explanation why: 		
Comments: <i>Continued looking at EXCAVATION OF WEST (POND) PARCEL</i>		
Signature: <i>T.J. Loren</i>		Date: <u>6-26-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL

Pond

WEDNESDAY

Erosion Sediment Control Report		Day <u>24</u> of Construction
		Date: <u>6-27-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <i>Pond</i>	
Preparer's Name	<u>T. GASS</u>	
Title		
Project Status:		
Is the project proceeding according to schedule?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Discuss project status: <i>SUNNY H. 80°</i>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time? If no, list controls not in place and provide an explanation why:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Comments:		
<i>CONTINUED EXCAVATION & LOADING FROM WEST PARCEL. COMPLETED EXCAVATION IN N.E. PARCEL & BACKFILLING W/ CA-6 CONCRETE FOR PARKING LOT.</i>		
Signature:	<i>T. Gass</i>	Date: <u>6-27-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL

Pond
THURSDAY

Erosion Sediment Control Report		Day <u>27</u> of Construction
		Date: <u>6-28-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <i>Pond</i>	
Preparer's Name	<u>T. GRASS</u>	
Title		
Project Status:		
Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Discuss project status: <i>Sunny Hi 70°</i>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
If no, list controls not in place and provide an explanation why: 		
Comments:		
<i>CONTINUED EXCAVATION & LOADING FROM WEST PARCEL</i>		
Signature:	<u>T. D. Grass</u>	
		Date: <u>6-28-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL

Pond

FRIDAY

Erosion Sediment Control Report		Day <u>28</u> of Construction
		Date: <u>6-29-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <i>POND</i>	
Preparer's Name	<i>T. GASS</i>	
Title		
Project Status:		
Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Discuss project status:		
<i>Sunny H. 80°</i>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why:		
Comments:		
<i>CONTINUED LOADING & trucking From WEST PARCEL TO C.I.O. CONOFILE.</i>		
<i>Complete compaction of CA-6 Backfill in N.E. parking lot.</i>		
<i>Completed EXCAVATION in west parcel pending sample results. E. startup of EXCAVATION in employee parking lot.</i>		
Signature:	<u>T. O. Gass</u>	Date: <u>6-29-01</u>

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP -SOUTH PARCEL
POND

WEDNESDAY

Erosion Sediment Control Report		Day <u>29</u> of Construction
		Date: <u>7-18-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois Ponds	
Preparer's Name	<u>C. Miethefer</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Hot, humid</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>Measures for Street Paving</u>		
Signature: <u>Larry L. Miethefer</u>	Date: <u>7-18-01</u>	

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL

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Rogers Park, South - RORRAP
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Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - SOUTH PARCEL

POND

FRIDAY

Erosion Sediment Control Report		Day <u>31</u> of Construction
		Date: <u>7-20-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <i>POND</i>	
Preparer's Name	<u>C. M. Anderson</u>	
Title		
Project Status:		
Is the project proceeding according to schedule?		
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Discuss project status:		
<i>Hot, Sunny, Humid, Hazy</i>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time?		
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
If no, list controls not in place and provide an explanation why:		
Comments:		
<i>- Sodet Piling Prep Installation - Removed South Fence</i>		
Signature:	<i>Larry H. Daff</i>	
		Date: <u>7-20-01</u>

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - SOUTH PARCEL

Monday

Erosion Sediment Control Report		Day <u>32</u> of Construction Date: <u>7-23-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <u>POND</u>	
Preparer's Name	<u>C. MARCHDEFFER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Hot, Sunny, Haze</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u>-Drove Sheet Piling</u> <u>-INSTALLED TEMPORARY FENCE</u>		
Comments: <u>Larry J. Clark</u>		
Signature:	Date: <u>7-23-01</u>	

Rogers Park, South - RURRAP
POND

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May 2001
OCTOBER

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - ~~SOUTH~~ PARCEL
~~POND~~

TUESDAY

Erosion Sediment Control Report		Day <u>33</u> of Construction Date: <u>7-24-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois <u>POND</u>	
Preparer's Name	<u>C. Marcheferz</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Hot, humid, sunny, hazy</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u>- INSTALLATION OF STREET PLUGS</u> <u>- EXPOSED SENTINEL VALVE BOX</u>		
Comments: <u>Carter J. Marcheferz</u>		

Rogers Park, South ~~RORRAP~~
POND

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May 2001
October

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - SOUTH PARCEL
~~POND~~

Wednesday

Erosion Sediment Control Report		Day <u>34</u> of Construction
		Date: <u>7-25-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois POND	
Preparer's Name	<u>C. MARSHER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Discuss project status: <u>rain, clayey, mud</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u>-MEASURED FOR HOPPER EXCAVATION</u> <u>-BEGAN EXCAVATION OF HOPPER</u>		
Comments: <u>-</u>		
Signature:	<u>Larry L. Marsh</u>	Date: <u>7-25-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - ~~SOUTH~~ PARCEL

THURSDAY

Erosion Sediment Control Report		Day <u>35</u> of Construction Date: <u>7-26-01</u>
Project Name	Rogers Park Sub Shop South Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Ritterhofer</u>	
Title		
Project Status:		
Is the project proceeding according to schedule?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Discuss project status: <i>Sunny, mild</i>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If no, list controls not in place and provide an explanation why: 		
Comments: <i>- Began loading non-haz soil - brought to CID 4/1 truck loads</i>		

Rogers Park, South - ROR/RAP
POND

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - ~~SOUTH~~ PARCEL

POND

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Rogers Park, South - ~~RORRAP~~
POND

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - SOUTH PARCEL

Monday

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Pond

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - SOUTH PARCEL

Pond
TUESDAY

Rogers Park, South ROR/RAP
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**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Wednesday

Erosion Sediment Control Report		Day <u>39</u> of Construction
		Date: <u>8-1-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Kettner</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <hr/> <i>HOT, Sunny, Heat WARNING</i>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <hr/> <hr/> <hr/> <hr/> <hr/>		
Comments: <i>EXCAVATION/LOADING NOW - HAZ SOIL FROM BOTH HODDIE AND TAN TANK AREAS PUMPED WATER FROM NEAR HODDIE AREA TO FERC TANK BEGAN EXCAVATION NEAR S.E. VALVE BOX 30 LOADS</i>		
Signature: <u>Larry L. May</u>		Date: <u>8-1-01</u>

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Erosion Sediment Control Report		Day <u>20</u> of Construction
		Date: <u>8-2-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. Warcheski</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>HOT, HEAVY RAIN</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u></u>		
Comments: <u>- EXCAVATION/LOADING Non-HAZ Soil</u> <u>- HEAVY RAIN SUSPENDED OPERATIONS - NO</u> <u>MORE TRENCHING</u> <u>- SEPARATED HAZ FROM Non-HAZ. WASTE</u> <u>13 LOADS</u>		
Signature: <u>Larry L. Krueger</u>		Date: <u>8-2-01</u>

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Friday

Erosion Sediment Control Report		Day <u>41</u> of Construction
		Date: <u>8-3-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MARHOFER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <i>Cloudy, Humid, Hot</i>		
<small>Handwritten notes from the monitor regarding site conditions and observations.</small>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <i>DUE TO HEAVY RAIN - STREET PLUG MARS 3" FROM SIDEWALK - FIRED GAP</i>		
<small>Handwritten notes from the monitor regarding erosion control measures and reasons for non-compliance.</small>		
Comments: <i>- SURVEY - EXCAVATION / LOADING NON-HAZ WASTE - BECAUSE OF 66 TRENCH LOSSES</i>		
TOOK SOIL SAMPLES: RPM-CSH-05U RPM-CSH-08U <i>RPM-CSH-05L RPM-CSH-08L</i> <i>RPM-CST-01U RPM-CST-04U/04L</i> <i>RPM-CST-01L RPM-CST-05U/05L</i> <i>RPM-CST02U/02L</i>		
Signature: <i>Edgar L. Stumpf</i>		Date: <u>8-3-01</u>

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Monday

Erosion Sediment Control Report		Day <u>42</u> of Construction
		Date: <u>8-6-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MARTHOPFER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <i>Hot, Sunny, 90°F</i>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <i></i>		
Comments: <i>Began loading HAZ WASTE Soil Brought in fill - 3" Stone + CAC Pumped H2O from HAZ / THE TANK excavations to frac. tank</i> <i>11 lots HAZ 34 lots non HAZ</i>		
Signature: <u>Victor L. Marf</u>		Date: <u>8-6-01</u>

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Erosion Sediment Control Report		Day <u>43</u> of Construction Date: <u>8-7-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MARCHEREN</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Hot, Sunny, 95°F</u>		
<small>WATER SUPPLY PROBLEMS</small>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <small>(This section is blank)</small>		
<small>(This section is blank)</small>		
Comments: <u>LADING HAZ SOIL - 7 LOADS</u> <u>LADING NON-HAZ - 1 LOAD</u> <u>PUMPED WASTE WATER FROM HOLDING TANK</u> <u>TANK EXCAVATIONS TO BLACK TANK</u> <u>EXCAVATED TAR TANK AREA</u> <u>BROUGHT IN CAL FILL</u>		
Signature:	Date: <u>8-7-01</u>	

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

WEDNESDAY

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Erosion Sediment Control Report		Day <u>45</u> of Construction
		Date: <u>8-9-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MARHOER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Hot, 95°F, Sunny</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u></u>		
Comments: <u>EXCAVATED / LOADED Non-HAZ. / HAZ WASTE</u> <u>PUMPED WASTE WATER FROM HOPPER INTO TRUCK</u> <u>TANK AND TANK TRUCK</u> <u>BACKFILLED HOPPER EXCAVATION</u> <u>8 LOADS HAZ. 31 LOADS NON-HAZ.</u>		
Signature: <u>Zestay L. Haf</u>		Date: <u>8-9-01</u>

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Erosion Sediment Control Report		Day <u>26</u> of Construction
		Date: <u>8/10/01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MARHOEFER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Mild, 75°F, Sunny</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u></u>		
Comments: <u>EXCAVATED / LOADED NON-HAZ. WASTE</u> <u>PUMPED WATER FROM HOPPER INTO FRACK TANK</u> <u>BACKFILLING - BROUGHT IN CAT</u> <u>SURVEY STREET, SIDEWALK, MANHOLES</u> <u>37 LOADS</u>		
Signature: <u>Lyle J. May</u>		Date: <u>8-10-01</u>

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL

Monitoring

Erosion Sediment Control Report		Day <u>47</u> of Construction
		Date: <u>8-13-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MARHOEFER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <i>Mud, 80° F, overcast</i>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <i></i>		
Comments: <i>EXCAVATED / LOADED NON-HAZ. WASTE - 13 LOTS</i> <i>EXCAVATED TAN TANK AREA</i> <i>BEGAN EXCAVATING / REMOVING 2" STEEL TAN PIPE</i> <i>South of TAN TANK EXCAVATION EXCAVATED</i> <i>FULL LENGTH TO PROPERTY LINE.</i> <i>PUMPED WATER FROM HOLE</i>		
Signature: <u>Larry J. Marhoefer</u>		Date: <u>8/13-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

TUESDAY

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

WEDNESDAY

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Thursday

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

Friony

Erosion Sediment Control Report		Day <u>51</u> of Construction
		Date: <u>8-17-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Arthofer</u>	
Title		
Project Status:		
Is the project proceeding according to schedule?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Discuss project status: <u>Sunny 80°F</u>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If no, list controls not in place and provide an explanation why: 		
Comments: <u>RECEIVED ROLL-OFF BOXES FROM HERITAGE BEGAN CLEANSING HOLDING FOUNDATION BEGAN EXPOSING N.E. VALVE BOX</u> <u>SET ENV. ON SITE TO CLEAN VALVE BOXES - REMOVED WATER AND SLUDGE</u> <u>LODGED ROLL-OFF BOXES NO TRUCKING SURVEY</u> <u>John J. Hartley</u>		
Signature:	Date: <u>8-17-01</u>	

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

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Rogers Park Pond

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**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - POND PARCEL

Theory

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL

WEDNESDAY

Erosion Sediment Control Report		Day <u>54</u> of Construction
		Date: <u>8-22-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MArthafer</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Cloudy, Rain, Humid 80° F</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>EXCAVATED S.E. VALVE Box</u> <u>Set ON SITE</u> <u>I ROLL OFF TAKEN AWAY - I BROUGHT ON SITE</u> <u>KANGAROO BROUGHT FIL</u>		
Signature:	<u>Larry L. Klab</u> Date: <u>8-22-01</u>	

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL

TUESDAY

Erosion Sediment Control Report		Day <u>55</u> of Construction
		Date: <u>8-23-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. W. HARPER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Cloudy, Raw, Humid, 75°F</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>SET ON SITE - PUMPED WATER</u> <u>REMOVED ASPHALT</u> <u>BROKE UP CONCRETE OR HOPPER FOUNDATION</u> <u>LODGED ROLL-OFF BOXES</u> 		
Signature:	<u>Lataj L. Harper</u> Date: <u>8-23-01</u>	

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Friday

Erosion Sediment Control Report		Day <u>56</u> of Construction Date: <u>8-24-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. Marttoffer</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Sunny 80°F</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If no, list controls not in place and provide an explanation why: <u>Set onsite - Cleaned S.E. valve box</u> <u>Loaded 5 loads from T2 tank</u> <u>15 loads from S.E. valve box</u> <u>Received CAG fill - backfilled T2 tank</u>		
Comments: <u>Set onsite - Cleaned S.E. valve box</u> <u>Loaded 5 loads from T2 tank</u> <u>15 loads from S.E. valve box</u> <u>Received CAG fill - backfilled T2 tank</u>		
Signature: <u>John P. Hough</u>		Date: <u>8-24-01</u>

Rogers Park Pond

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**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Erosion Sediment Control Report		Day <u>57</u> of Construction
		Date: <u>B-27-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. Martzhofer</u>	
Title		
Project Status: Is the project proceeding according to schedule? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Discuss project status: <u>Sunny 80° F</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, list controls not in place and provide an explanation why: 		
Comments: <u>EXCAVATED / LOADED Northaz. WASTE - 21 LONDS</u> <u>EXCAVATED N.W. VALVE BOX</u> <u>BACKFILLED HOLLOW</u> <u>I POOL-OFF BOX DROPPED OFF - I PICKED UP</u> <u>FABRIC IN TAR TANK EXCAVATION</u>		
Signature:	<u>Lloyd L. May</u>	
		Date: <u>B-27-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

TUESDAY

Rogers Park Pond

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**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

Wednesday

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

Thursday

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

Friday

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL

Erosion Sediment Control Report		Day <u>62</u> of Construction
		Date: <u>9-03-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. Marthofer</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: 		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>George onsite to pump water</u>		
Signature:	<u>Lloyd L. May</u>	
		Date: <u>9-3-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - POND PARCEL

TUESDAY

Erosion Sediment Control Report		Day <u>63</u> of Construction
		Date: <u>9-4-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MARTHOPFER</u>	
Title		
Project Status:		
Is the project proceeding according to schedule?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Discuss project status:		
<u>Sunny 75° F</u>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time?		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If no, list controls not in place and provide an explanation why:		
Comments:		
<u>Pumped water</u> <u>EXCAVATED & REMOVED 24" PIPE IN S.E. CORNER</u> <u>OF PROPERTY</u> <u>Survey</u>		

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Wednesday

Erosion Sediment Control Report		Day <u>64</u> of Construction
		Date: <u>9-5-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Harper</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Discuss project status: <i>Sunny 75°</i>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <i>LOADED NON-HAZ. WASTE - 7 LOADS</i> <i>EXCAVATED 24" PIPE</i> <i>2 ROLL-OFF BOXES TAKEN AWAY</i>		
Signature: <i>Larry L. Wolf</i>		Date: <u>9-5-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

Thursday

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

Tuesday

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

Monday

Rogers Park Pond

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Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL

Erosion Sediment Control Report		Day <u>68</u> of Construction
		Date: <u>9-11-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. McAdoo</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Sunny 80°</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>STAN DRILLED WASTE IS IN WASTE BOX</u> <u>STAN LOADED 2 LOADS OF NEW HAZ. WASTE</u>		
Signature: <u>Lata L. Story</u>	Date: <u>9-11-01</u>	

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Wednesday

Erosion Sediment Control Report		Day <u>69</u> of Construction
		Date: <u>9-12-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. Marthoer</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <i>Sunny 85°</i>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <i>LOADED NON-HAZ. WASTE - 5 CARDS</i>		
Comments: <i>EXCAVATED Hover Foundation</i> <i>TOOK DOWN EAST PORTION OF PARKING LOT FENCE</i>		
Signature: <i>Untitled</i>		Date: <u>9-12-01</u>

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Thursday

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Erosion Sediment Control Report		Day <u>71</u> of Construction
		Date: <u>9-14-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. MATHER</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Sunny 65°</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u></u>		
Comments: <u>LOADED NON-HAZ. WASTE - 23 LOADS</u> <u>EXCAVATED 2" THE PIPE NEAR S.E. VALVE BOX</u>		
Signature:	<u>Larry L. Mather</u>	Date: <u>9-14-01</u>

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL

Mondy

Erosion Sediment Control Report		Day <u>72</u> of Construction
		Date: <u>9-17-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Reutter</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <i>Sunny 70°</i>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <i>LOADING NON-HAZ WASTE - 1/4 LOADS Demo. Buildings in N.W. corner Backfilled EXCAVATED HAZARZ FOUNDATION</i>		
Signature:	<i>Lafay L. Mof</i>	Date: <u>9-17-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

TUESDAY

Erosion Sediment Control Report		Day <u>73</u> of Construction Date: <u>9-18-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. Martdeper</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Humid, cool 70°</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u>None</u>		
Comments: <u>LOADED BUILDING RUBBLE</u> <u>BACKFILLED</u> <u>LOADED 9 LOADS OF NON-HAZ WASTE</u>		

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Wednesday

Erosion Sediment Control Report		Day <u>74</u> of Construction Date: <u>9-19-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. Marhofer</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>RAIN 70°</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u>LOADED NON-HAZ. WASTE - 13 LOADS</u> <u>PUMPED WATER</u> <u>RECEIVED BACKFILL - CAG</u>		
Comments: <u>Yentay L. Marf</u>		

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Erosion Sediment Control Report		Day <u>15</u> of Construction
		Date: <u>9-20-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Metzger</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Sunny 70°</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: <u>LOADED NON-HAZ SOIL - 28 LOADS</u> <u>PUMPER WATER</u> <u>BACKFILLED</u> <u>STAMPED: RPM-CS03-01</u> <u>RPM-CS04-04</u>		
Comments:		
Signature:	<u>Lyle L. Thompson</u>	
		Date: <u>9-20-01</u>

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL

Erosion Sediment Control Report		Day <u>76</u> of Construction
		Date: <u>9-21-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Harberger</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Sunny 70°</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>EXCAVATED LEAD Contamination in MAIN PARCEL</u> <u>LOADED NON-HAZ WASTE - 24 LOADS</u>		
Signature:	<u>Linda L. Harberger</u>	
		Date: <u>9-21-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

Monetary

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP – POND PARCEL

TUESDAY

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP – POND PARCEL**

Wednesday

Erosion Sediment Control Report		Day <u>19</u> of Construction
		Date: <u>9-26-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Artoffier</u>	
Title		
<p>Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status:</p>		
<p><i>Cool, Partly Cloudy, 55°</i></p>		
<p>Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why:</p>		
<p>Comments: <i>BACKFILLED</i> <i>EXCAVATED NORTH Foundation</i> <i>LOADED Scrap Steel</i></p>		
Signature: <i>Lentz L. Stump</i>		Date: <u>9-26-01</u>

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL

THURSDAY

Erosion Sediment Control Report		Day <u>80</u> of Construction
		Date: <u>9-27-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. Marthaler</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <i>cool sunny 65°</i>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <i>covered non-haz waste</i> <i>excavated and removed trees</i> <i>brought in fill - cat #3" stone</i>		
Signature:	<u>Larry J. Marthaler</u>	
		Date: <u>9-27-01</u>

**Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL**

Erosion Sediment Control Report		Day <u>81</u> of Construction
		Date: <u>9-28-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago, Illinois	
Preparer's Name	<u>C. M. Metzger</u>	
Title		
Project Status: Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Discuss project status: <u>Sunny 70°</u>		
Erosion Controls: Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If no, list controls not in place and provide an explanation why: 		
Comments: <u>LOADED NON-HAZ WASTE - 18 CARDS</u> <u>BACK FRIED & LEVELED FILL</u>		
Signature:	<u>Larry L. May</u>	
	Date: <u>9-28-01</u>	

Erosion and Sediment Control
Monitoring Report
ROGERS PARK SUB SHOP - POND PARCEL

Monday

Erosion Sediment Control Report		Day <u>82</u> of Construction
		Date: <u>10-01-01</u>
Project Name	Rogers Park Sub Shop Pond Parcel Excavation	
Location	Chicago Illinois	
Preparer's Name	<u>Leeteg L. May</u>	
Title		
Project Status:		
Is the project proceeding according to schedule? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Discuss project status: <u>Sunny 70°</u>		
Erosion Controls:		
Are appropriate erosion and sediment controls installed at this time? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
If no, list controls not in place and provide an explanation why: 		
Comments: <u>LOADED NON-HAZ SOIL</u> <u>LEVELLED BACK FILL</u> <u>COMPLETED EXCAVATION OF N. HOLLOW</u> <u>FOUNDATION</u>		
Signature:	<u>Leeteg L. May</u>	
		Date: <u>10-01-01</u>

**Erosion and Sediment Control
Monitoring Report**
ROGERS PARK SUB SHOP - POND PARCEL

TUESDAY

Rogers Park Pond

October 2001

APPENDIX F
REMEDIAL ACTION DISPOSAL QUANTITIES

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/13/2001	9528055	15.600	641.440	
		17.680		
		13.690		
		17.810		
	9528056	16.720		
		17.430		
		14.210		
		21.260		
	9528057	19.130		
		19.080		
		14.630		
	9528058	13.620		
		13.240		
		13.900		
	9528059	16.000		
		14.400		
		18.960		
	9528060	17.250		
		19.670		
		19.190		
	9528061	18.960		
		17.990		
		23.140		
	9528062	17.720		
		16.120		
		18.680		
	9528063	16.560		
		15.880		
		20.610		
	9528064	18.810		
		16.410		
		21.030		
	9528065	19.110		
		16.670		
	9528066	16.360		
		14.880		
		19.040	641.440	641.440
06/19/2001	9528183	19.030		
		15.880		
		13.970		
		17.090		
		16.030		
	9528184	15.160		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/19/2001	9528184	17.220		
		20.210		
		14.750		
	9528185	20.600		
		18.900		
		19.930		
	9528186	20.190		
		15.920		
		18.800		
	9528187	19.850		
		14.900		
		22.480		
	9528188	17.680		
		17.870		
	9528189	16.480		
		17.560		
		16.430		
	9528190	16.450		
		11.380		
		17.220		
	9528191	13.560		
		15.870		
		14.370		
	9528192	18.140		
		16.030		
		17.870		
	9528193	13.310		
		13.530		
	9528194	17.870		
		16.530		
	9528195	15.780		
		15.190		
		10.920		
	9528196	15.600		
		14.910		
		15.290		
	9528197	16.380		
		17.110		
	9528198	17.490		
		16.920		
		18.060		
	9528199	18.240		
		14.280		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/19/2001	9528199	14.220	957.240	1598.680
	9528200	17.760		
		14.390		
		17.600		
	9528201	18.000		
		14.680		
		15.790		
	9528202	12.220		
		17.350		
06/20/2001	9528203	14.180	957.240	1598.680
		20.090		
		18.470		
		17.390		
	9528204	20.170		
		18.420		
		16.980		
		18.220		
	9528205	19.440		
		21.550		
		19.910		
		19.690		
	9528206	18.780		
		20.130		
		19.920		
	9528207	16.020		
		18.520		
		17.090		
		14.920		
06/20/2001	9528208	18.500	957.240	1598.680
		19.930		
		17.760		
		17.520		
	9528209	17.170		
06/20/2001		18.050	957.240	1598.680
		17.730		
		15.090		
	9528210	19.420		
06/20/2001		22.120	957.240	1598.680
		23.980		
		22.370		
	9528211	14.400		
06/20/2001		17.090	957.240	1598.680
		15.240		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/20/2001	9528211	13.900	1362.490	2961.170
	9528212	17.980		
		20.430		
		17.790		
		16.880		
	9528213	16.780		
		21.730		
		19.660		
		16.700		
	9528214	17.440		
		17.410		
		19.120		
		18.160		
	9528215	21.100		
		21.370		
		20.010		
	9528216	17.480		
		19.770		
		17.770		
		18.610		
	9528217	21.310		
		19.090		
		16.810		
		17.860		
	9528218	18.520		
		16.480		
		16.910		
	9528219	21.600		
		19.940		
		17.660		
		16.960		
	9528220	20.410		
		19.480		
		17.050		
		19.620		
	9528221	18.210		
		18.060		
		17.730		
	9528222	15.190		
		17.250		
	9528223	18.290		
		21.440		
	9528224	16.470		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/21/2001	9528224	19.570		
		18.800		
	9526225	20.300		
	9528226	22.750		
		23.710		
		27.490		
	9528227	19.600		
		18.450		
		22.210		
	9528228	17.710		
		20.360		
		19.760		
		19.500		
	9528229	19.140		
		19.600		
		18.130		
	9528230	18.920		
		20.890		
		19.530		
	9528231	19.910		
		19.870		
		21.070		
	9528232	19.280		
		17.810		
		19.780		
	9528233	14.780		
		15.730		
		16.780		
	9528234	17.200		
		23.410		
		21.780		
	9528235	17.160		
		24.050		
		26.990		
	9528236	16.460		
		21.000		
		20.760		
	9528237	17.630		
		18.130		
		20.680		
	9528238	17.720		
		22.400		
		19.770		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/21/2001	9528239	18.800	1081.000	4042.170
		21.210		
		20.340		
	9528240	16.910		
		20.260		
		19.160		
	9528241	13.700		
		16.820		
		21.030		
06/22/2001	9340141	20.080		
		21.690		
		20.300		
	9340142	20.800		
		22.550		
		22.280		
		19.640		
	9340143	18.880		
		18.680		
		19.960		
		17.410		
	9340144	22.820		
		17.930		
		15.410		
	9340145	17.890		
		16.450		
		16.790		
	9340146	20.200		
		16.570		
		18.490		
	9340147	17.850		
		14.980		
		17.790		
	9340148	23.030		
		22.300		
		24.410		
	9340149	18.700		
		18.110		
		19.770		
	9340150	18.490		
		17.790		
		16.090		
	9340210	19.270		
		18.960		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/22/2001	9340210	17.730		
	9340211	20.240		
		18.470		
		19.820		
	9340212	17.730		
		19.280		
		16.200		
	9340219	21.780		
		21.480		
		20.080		
	9340231	20.600		
		18.730		
		16.710		
	9528242	20.190		
		19.550		
		19.770		
		18.430		
	9528243	20.300		
		18.360		
		16.840		
		17.580		
	9528244	22.300		
		19.940		
		19.610		
		17.540		
	9528245	20.420		
		19.420		
		18.800		
		20.190		
	9528246	20.120		
		19.940		
		17.880		
		18.040		
	9528247	19.670		
		17.650		
		18.130		
		16.220		
	9528248	19.990		
		19.350		
		19.140		
		18.090		
	9528249	20.340		
		22.490		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/22/2001	9528249	20.840	1577.380	5619.550
	9528250	20.120		
		21.110		
		18.190		
		19.620		
06/25/2001	9340151	26.130		
		19.770		
		21.620		
	9340152	19.660		
		19.100		
		19.860		
	9340153	21.350		
		19.460		
		20.240		
	9340154	22.410		
		19.360		
		19.120		
	9340155	22.930		
		20.190		
	9340156	20.750		
		17.720		
		20.060		
06/26/2001	9340157	20.230		
		18.380		
		19.300		
	9340158	20.830		
06/27/2001		17.670		
		18.990		
	9340159	21.030		
		16.430		
06/28/2001	9340160	18.340		
		20.020		
		18.210		
		17.730		
	9340161	24.280		
06/29/2001		25.720		
		23.920		
	9340162	22.030		
		17.070		
06/30/2001		19.350		
	9340163	22.770		
		19.210		
		21.840		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/25/2001	9340164	21.830	1034.000	6653.550
		21.010		
	9340167	19.970		
		20.700		
		18.660		
	9340168	18.340		
		17.850		
		17.540		
	9340169	22.150		
		20.860		
		19.340		
06/26/2001	9528426	23.910	1034.000	6653.550
		18.760		
	9340170	20.690		
		18.210		
		19.220		
	9340171	18.080		
		18.990		
	9340172	20.830		
		17.650		
		18.570		
		18.100		
	9340173	19.320		
		19.740		
	9340174	18.300		
		20.020		
		15.040		
		20.280		
	9340175	19.360		
		19.080		
		15.760		
		18.690		
	9340176	19.010		
		18.640		
		17.730		
		19.840		
	9340180	21.150		
		21.440		
		23.260		
	9340181	19.560		
		20.460		
		20.060		
		20.500		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/26/2001	9340182	20.810		
		19.080		
		19.690		
	9340183	23.890		
		22.580		
		25.640		
	9340184	19.310		
		17.860		
		17.410		
	9340185	21.190		
		19.860		
		21.730		
	9340186	20.680		
		14.630		
		20.590	882.530	7536.080
06/27/2001	9340187	21.040		
		18.000		
		17.840		
	9340188	26.190		
		24.900		
		21.470		
	9340189	18.320		
		16.960		
		16.890		
		16.710		
	9340190	20.560		
		20.470		
		18.610		
		18.030		
	9340191	18.110		
		20.460		
		21.120		
		17.520		
	9340192	19.160		
		16.870		
		16.930		
	9340193	20.280		
		16.300		
		19.630		
	9340194	21.460		
		18.940		
		21.180		
	9340195	20.080		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/27/2001	9340195	20.930	812.280	8348.360
		21.700		
	9340196	14.610		
		17.040		
	9340197	13.460		
		16.570		
		18.280		
	9340198	18.130		
		18.340		
	9340199	17.170		
		18.000		
06/28/2001	9340200	17.550		
		19.450		
		20.610		
	9340202	16.410		
	9340203	18.940		
		19.470		
		19.390		
	9340213	19.930		
		20.020		
		20.400		
	9340214	16.300		
		19.880		
		20.730		
		17.050		
	9340215	21.000		
		16.600		
		18.740		
		18.130		
	9340216	21.040		
		18.910		
		21.540		
		17.490		
	9340217	19.260		
		19.610		
		18.160		
	9340218	17.210		
		18.700		
		18.550		
		16.290		
	9340220	19.670		
		24.290		
		18.760		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/28/2001	9340220	19.120	1280.610	9628.970
	9340221	18.980		
		17.270		
		19.240		
		16.940		
	9340222	19.620		
		21.950		
		22.040		
		20.360		
	9340223	19.590		
		20.340		
		18.300		
	9340224	18.580		
		16.740		
		18.780		
	9340225	22.460		
		23.490		
		22.750		
	9340226	21.150		
		19.250		
		19.570		
		17.680		
	9340227	21.810		
		22.430		
		24.110		
		18.980		
	9340228	17.570		
		20.770		
		20.600		
		17.920		
	9340229	17.560		
		19.140		
		16.220		
	9340230	18.740		
	9340232	19.170		
	9340233	18.910		
		18.660		
		17.760		
	9340234	17.040		
		19.240		
		19.260		
	9340235	18.020		
		18.460		
06/29/2001				

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/29/2001	9340235	23.230		
	9340236	20.270		
		19.540		
		17.110		
	9340237	13.950		
		16.240		
		17.870		
	9340238	18.260		
		19.140		
		20.940		
	9340239	17.500		
		15.780		
		20.420		
	9340240	18.540		
		19.420		
		19.320		
	9340241	12.720		
		16.380		
		17.410		
	9340242	16.840		
		18.610		
		15.660		
	9340243	21.980		
		18.950		
		15.150		
	9340244	17.520		
		20.450		
		16.680		
	9340246	19.540		
		20.760		
		18.820		
	9340247	19.800		
		21.020		
	9340248	15.080		
		16.400		
	9340249	18.140		
		16.450		
	9340250	17.700		
		16.140		
	9340251	22.320		
		22.200		
	9340252	16.130		
		15.540		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
06/29/2001	9340253	16.770 19.640	910.350	10539.320
07/26/2001	9340254	17.900 16.710 20.380		
	9340255	15.830 16.880 19.120		
	9340256	18.780 18.450 16.730 18.040	NOTE: NOT charged for	
	9340257	19.540 19.340 17.700		
	9340258	16.630 16.110 16.450		
	9340259	14.630 12.370 15.540		
	9340260	16.780 16.290 17.090		
	9340261	12.970 17.640 16.850		
	9340262	18.310 17.370 18.070		
	9340263	16.110 16.590 21.500		
	9340264	18.000 17.120 17.080		
	9340265	14.600 14.150		
	9340266	16.480 17.790		
	9340267	14.950 16.800		
	9340268	18.330		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
07/26/2001	9340268	17.860	715.860	11255.180
07/27/2001	9340269	17.490		
		21.900		
		20.740		
		17.840		
	9340270	17.150		
		18.860		
		19.310		
		17.890		
	9340271	20.510		
		21.540		
		20.670		
		17.670		
	9340272	17.000		
		17.060		
		19.270		
		16.990		
	9340273	17.300		
		20.850		
		19.030		
		18.550		
	9340274	18.280		
		19.880		
		19.470		
		19.210		
	9340275	23.630		
		20.290		
		20.510		
		17.670		
	9340276	18.190		
		17.850		
		15.520		
		17.300		
	9340277	20.960		
		25.770		
		21.770		
	9340278	21.430		
		20.460		
	9340279	19.670		
		20.580		
		19.700		
	9340280	19.410		
		18.870		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
07/27/2001	9340280	18.910	1231.530	12486.710
	9340281	18.960		
		18.630		
		18.730		
	9340282	20.670		
		18.850		
		19.550		
	9340283	21.470		
		20.330		
		19.770		
	9340284	19.260		
		19.320		
		19.270		
	9340285	17.950		
		17.540		
	9340286	17.540		
		17.170		
		17.960		
07/30/2001	9340287	18.270		
	9340306	18.750		
		19.720		
		18.870		
	9340288	18.440	1231.530	12486.710
		17.810		
		18.680		
		16.510		
	9340289	18.940		
		17.530		
		18.900		
		17.070		
	9340290	15.730		
		18.080		
		18.220		
	9340291	18.070		
		18.290		
		19.180		
		17.260		
	9340292	17.200		
		16.140		
		16.450		
		15.760		
	9340293	15.740		
		18.270		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
07/30/2001	9340293	17.090		
		15.980		
	9340294	16.300		
		14.290		
		17.710		
	9240295	17.810		
		18.850		
		18.020		
	9340296	15.870		
		16.680		
		16.890		
	9340297	16.550		
		16.840		
		15.500		
	9340298	14.090		
		16.140		
		15.150		
	9340299	19.950		
		19.310		
		19.530		
	9340300	14.570		
		17.580		
		17.730		
	9340302	16.960		
		16.680	790.340	13277.050
07/31/2001	9340303	16.740		
		18.230		
		19.740		
		16.860		
	9340304	13.290		
		17.430		
		14.170		
		16.960		
	9340305	17.030		
		18.500		
		16.330		
		18.290		
	9340307	19.350		
		17.320		
		17.150		
	9340308	16.680		
		19.530		
		18.180		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
07/31/2001	9340308	17.220	796.490	14073.540
	9340309	19.160		
		18.050		
		18.370		
	9340310	19.200		
		17.260		
		17.610		
	9340311	17.930		
		17.000		
		17.010		
	9340312	19.480		
		18.060		
		18.270		
	9340313	17.020		
		15.790		
		16.030		
	9340314	17.850		
		14.430		
		18.620		
	9340315	17.970		
		19.600		
		19.750		
	9340316	18.230		
		17.080		
		18.720		
	9340317	19.980		
		19.020		
08/01/2001	9340318	16.430	796.490	14073.540
	9340319	13.700		
		17.370		
		18.790		
		20.750		
	9340320	15.850		
		18.060		
		16.590		
	9340321	15.380		
		16.060		
		16.650		
		18.430		
	9340322	17.590		
		15.490		
		17.580		
		15.670		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/01/2001	9340323	15.680	878.200	14951.740
		14.200		
		12.560		
		17.670		
	9340324	16.480		
		18.140		
		17.190		
		18.320		
	9340325	18.090		
		19.140		
		18.810		
	9340326	18.330		
		17.680		
		17.140		
	9340327	16.950		
		16.900		
		18.610		
	9340328	15.670		
		17.050		
		16.790		
	9340329	16.860		
		16.880		
	9340330	17.480		
		17.050		
		18.990		
	9340331	17.590		
		15.210		
		17.480		
	9340332	14.810		
		16.780		
		15.230		
	9340333	16.840		
		16.210		
		18.470		
	9340334	17.010		
	9340335	13.520		
08/02/2001	9340336	13.840		
	9340337	13.630		
	9340338	16.820		
	9340339	17.320		
	9340340	16.470		
	9340341	17.650		
	9340342	14.480		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/02/2001	9551645	14.930	198.440	15150.180
	9551648	18.650		
	9551649	17.790		
	9551650	18.160		
	9551651	18.700		
08/03/2001	9551646	20.780		
		18.720		
		18.040		
	9551647	15.940		
		19.790		
		16.690		
	9551652	20.080		
		19.170		
		20.090		
	9551653	17.040		
		19.390		
		14.770		
	9551654	15.800		
		16.490		
		16.120		
	9551655	15.690		
		17.140		
		19.340		
	9551656	16.780		
		19.860		
		20.590		
	9551657	16.580		
		17.520		
		18.690		
	9551658	16.260		
		16.820		
		18.100		
	9551659	17.320		
		14.890		
	9551660	17.370		
		17.510		
	9551661	15.700		
		18.730		
	9551662	17.680		
		19.930		
	9551663	18.620		
		19.550		
	9551664	15.760		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/03/2001	9551664	18.940	1159.880	16310.060
	9551665	17.450		
		17.060		
	9551666	17.100		
		16.900		
	9551667	17.960		
		18.290		
	9551668	16.340		
		16.230		
		17.100		
	9551669	11.930		
		11.750		
	9951670	16.980		
		15.770		
	9551671	16.270		
		17.020		
	9551672	14.190		
		16.290		
08/06/2001	9551673	17.560	1159.880	16310.060
		16.880		
	9551674	15.770		
		20.290		
	9551675	16.310		
		16.370		
	9551676	18.140		
		17.470		
	9551677	19.350		
		18.020		
	9551678	14.810		
	9551679	20.290		
		15.300		
	9551680	21.380		
		18.910		
	9551681	19.470		
		16.390		
	9551682	14.170		
	9551683	14.190		
		17.020		
	9551684	17.180		
		17.290		
	9551685	18.300		
		18.030		
	9551686	19.260		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/06/2001	9551687	18.030	603.550	16913.610
		17.590		
	9551688	16.470		
		19.060		
	9551689	16.100		
		19.840		
	9551690	17.110		
	9551691	19.240		
	9551692	16.460		
	9551693	17.110		
		16.180		
	9551694	17.870		
		17.370		
	9551695	18.620		
08/07/2001	9551696	22.030	117.760	17031.370
		18.730		
	9551697	17.630		
	9551698	17.410		
	9551699	15.710		
	9551700	17.810		
	9551701	18.490		
08/08/2001	9551702	15.910	168.670	17200.040
	9551703	20.560		
	9551704	15.340		
	9551705	11.850		
	9551706	17.830		
	9551707	17.780		
	9551708	19.060		
08/09/2001		18.870		
	9551710	19.830		
		20.830		
	9551711	19.170		
	9551712	19.300		
		15.630		
	9551713	19.880		
	9551715	16.100		
	9551714	18.830		
		18.210		
		18.530		
		18.780		
	9551716	18.250		
		20.400		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/09/2001	9551716	16.110		
		18.040		
	9551717	19.150		
		20.200		
		17.910		
		18.310		
	9551718	17.950		
		19.360		
		18.410		
	9551719	17.110		
	9551720	19.180		
		19.960		
		20.300		
	9551721	18.790		
		19.210		
		20.550		
	9551722	19.780		
		19.640		
		18.020		
	9551723	17.970		
		20.520		
		18.780		
	9551724	20.190		
		20.680		
	9551726	19.080	588.200	17788.240
08/10/2001	9551725	16.970		
		19.170		
		17.220		
	9551727	17.820		
	9551728	20.010		
		17.320		
		16.910		
		17.480		
	9551729	17.930		
	9551730	19.380		
		18.790		
		18.710		
		18.000		
	9551731	17.250		
	9551732	19.250		
		15.200		
	9551733	19.830		
		14.640		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/10/2001	9551733	16.100	656.640	18444.880
	9551734	19.050		
		16.490		
		15.780		
	9551735	20.560		
		19.620		
		18.070		
	9285407	17.270		
		16.300		
	9285408	16.690		
		17.160		
	9285409	18.300		
		20.200		
08/13/2001	9285410	17.040	215.800	18660.680
		18.560		
	9285411	18.140		
		13.770		
	9285412	16.200		
		19.460		
	9551705	18.120		
	9285413	15.420		
		17.300		
		13.340		
	9285414	15.280		
		18.590		
		14.280		
08/14/2001	9285415	18.010		
		18.030		
		17.810		
	9552255	17.030		
		17.240		
		15.350		
	9552256	15.030		
		17.740		
		16.640		
	9552257	16.630		
		14.740		
		17.240		
	9552258	16.320		
		15.900		
		15.950		
	9552259	15.220		
		14.620		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/14/2001	9552259	17.850	327.460	18988.140
	9552260	17.410		
		16.300		
		18.050		
	9552261	14.620		
	9552262	16.950		
		17.320		
	9552263	16.330		
		16.600		
08/15/2001	9552265	18.160	37.560	19025.700
	9552266	19.400		
08/16/2001	9552264	16.490	267.310	19293.010
		17.210		
	9552267	20.530		
		17.330		
	9552268	15.220		
		17.330		
	9552269	12.180		
		17.720		
	9552270	18.810		
	9552271	15.480		
		16.650		
	9552272	18.890		
		14.980		
08/24/2001	9552273	14.930	149.820	19442.830
	9552274	17.370		
		16.190		
	9552275	19.980		
		16.140		
	9552276	16.180		
	9552277	15.850		
		18.690		
08/27/2001	9552278	16.260		
	9552279	17.490		
	9552280	12.920		
		16.310		
	9552281	20.950		
		22.360		
		19.070		
	9552282	18.930		
		16.620		
		20.320		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/27/2001	9552283	18.750	387.000	19829.830
		19.160		
	9552284	18.400		
		17.550		
	9552284	18.190		
	9552365	20.020		
		16.730		
		15.860		
	9552366	16.890		
		17.370		
08/28/2001	9552367	16.430	239.060	20068.890
		18.650		
		18.320		
	9552369	19.170		
		17.260		
	9552370	18.870		
		19.740		
		18.560		
	9552371	17.110		
		24.160		
08/29/2001	9552372	16.410	239.060	20068.890
		18.410		
		15.150		
	9552373	20.750		
		21.250		
		17.080		
	9552374	16.850		
		14.720		
	9552375	19.570	19.570	20088.460
08/30/2001	9552376	17.550	239.060	20068.890
		18.930		
		16.870		
	9552377	15.850		
		17.030		
		14.970		
	9552378	17.760		
	9552379	15.490		
		15.130		
	9552380	16.430		
		19.850		
		20.610		
	9552381	19.770		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
08/30/2001	9552381	20.360	417.580	20506.040
		18.790		
	9552382	16.350		
		17.850		
		16.680		
	9552383	19.560		
		17.320		
		19.100		
	9552384	18.020		
	9552385	17.010		
		10.300		
08/31/2001	9552386	18.380	18.380	20524.420
09/05/2001	9552388	16.650	100.900	20625.320
		16.610		
		13.830		
	9552389	19.510		
		18.350		
		15.950		
09/06/2001	9552390	12.400	12.400	20637.720
09/07/2001	9552391	15.250	214.730	20852.450
		19.390		
		16.850		
	9552392	17.900		
		14.940		
		14.730		
	9552393	18.900		
		14.280		
		16.240		
	9552394	16.570		
		16.540		
09/10/2001	9552395	17.680	120.330	20972.780
		15.460		
		15.050		
		15.550		
	9552397	18.240		
		16.940		
		17.100		
09/11/2001	9552399	18.850		
		18.600		
		15.450		
	9552400	14.240		
		20.900		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/11/2001	9552400	21.280	125.290	21098.070
	9552401	17.150		
	9552402	17.430		
	9552403	18.840		
09/12/2001	9552404	14.770		
	9552405	14.930		
	9552406	17.530		
	9552407	17.160		
09/12/2001	9552408	17.380	81.770	21179.840
09/13/2001	9552409	17.480		21470.520
		16.730		
		17.380		
	9552410	17.890		
		17.710		
	9552411	19.120		
	9552412	18.180		
		18.750		
	9552413	18.960		
		21.860		
	9552414	17.640		
		18.130		
	9552200	17.910		
		19.190		
09/14/2001	9552202	16.220	201.440	21671.960
		17.530		
	9551096	17.560		
		19.520		
09/17/2001	9552201	16.950		
		15.280		
		15.740		
	9552211	14.880		
		14.550		
		14.400		
		20.230		
	9552214	19.030		
		18.550		
		14.750		
	9551097	18.490		
		21.950		
	9551098	16.640		
		18.040		
	9551099	19.710		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/17/2001	9551099	18.440	259.210	21931.170
		19.250		
	9551100	16.920		
		17.380		
	9551102	16.500		
		23.320		
09/18/2001	9551103	16.600	176.690	22107.860
		17.940		
	9551107	18.030		
09/19/2001	9551101	19.270	244.270	22352.130
		20.550		
	9551104	22.360		
		17.880		
	9551105	22.380		
		18.780		
	9551106	17.880		
	9551107	17.480		
	9551108	20.110		
09/20/2001	9551109	23.810	16.590	16.590
		19.310		
		20.970		
	9551110	19.810		
		19.260		
	9551111	18.420		
		17.730		
	9551112	19.730		
		17.090		
	9551113	16.620		
		18.530		
	9551114	17.120		
		15.870		
	9551115			
	9551116	18.320		
		17.110		
		16.590		
	9551117	15.820		
		17.270		
		17.080		
	9551118	16.320		
		17.310		
	9551119	16.270		
		17.710		
		17.600		

Table E-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/20/2001	9551120	17.640	481.950	22834.080
		15.170		
		19.790		
	9551121	17.670		
		18.480		
	9551122	17.440		
		16.460		
	9551123	15.560		
		14.390		
	9551124	19.870		
		16.130		
	9551125	19.240		
		19.390		
	9552204	18.010		
	9552212	15.000		
	9552213	16.880		
	9552215	17.430		
09/21/2001	9551232	19.010	428.720	23262.800
		16.960		
		17.830		
	9551233	19.710		
		17.740		
	9551234	17.820		
		16.870		
	9551235	14.440		
		15.560		
	9551236	16.470		
		16.280		
	9551237	19.680		
		17.310		
	9551238	20.390		
	9551239	16.840		
	9552203	17.120		
		19.830		
		18.470		
	9552205	19.940		
		17.480		
		15.970		
	9552206	18.170		
		19.990		
		18.840		
09/24/2001	9551240	17.240		
		16.990		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/24/2001	9551241	20.280	504.260	23767.060
		18.610		
	9551242	18.620		
		17.750		
	9551243	17.480		
		14.790		
	9551244	19.030		
		16.890		
	9551245	17.220		
		15.890		
	9551246	17.020		
		17.180		
	9551247	17.800		
		20.750		
	9551248	15.050		
		16.430		
	9551249	14.630		
		16.000		
	9551250	16.890		
		17.160		
	9551251	17.210		
		19.940		
	9551252	17.780		
		17.440		
	9551253	19.100		
		16.270		
	9551254	16.820		
09/25/2001	9551255	18.270		
		11.960		
		19.090		
	9551256	16.500		
		16.090		
		16.780		
		12.570		
	9551257	14.390		
		17.390		
		12.170		
	9551258	16.910		
		19.030		
	9551259	16.600		
		19.730		
		16.300		
	9551260	17.800		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
09/25/2001	9551260	18.010	442.860	24209.920
		13.190		
	9551261	15.680		
		16.830		
		12.790		
		17.000		
	9551390	15.990		
		18.470		
		21.850		
	9551391	15.560		
		15.910		
		442.860		
09/26/2001	9551393	19.000	62.810	24272.730
	9551394	16.300		
	9551395	13.380		
		14.130		
09/27/2001	9551396	15.120	123.290	24396.020
	9551397	18.760		
	9551398	18.170		
		18.970		
		15.940		
	9551399	18.290		
		18.040		
09/28/2001	9551400	17.470	331.910	24727.930
		19.140		
		18.660		
	9551401	17.520		
		18.760		
		12.680		
	9551402	18.420		
		18.650		
		21.450		
	9551403	18.440		
		18.430		
		15.610		
	9551404	18.210		
		13.380		
	9551405	16.070		
		16.670		
	9551406	16.160		
	9551407	17.810		
	9551409	18.380		
10/01/2001	9551411	17.970		

Table F-1
Special Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Tons)	Daily Total (Tons)	Grand Total (Tons)
10/01/2001	9551411	17.170		
	9551412	17.300		
		15.860		
		17.210		
	9551413	19.990		
		21.860		
		18.770		
	9551414	18.760		
		17.230		
		15.680		
	9551415	19.940		
		20.900		
	9551416	17.060		
		20.940		
		15.730	292.370	25020.300
Special Waste Grand Total:				25020.300

Table F-2
Hazardous Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Pounds)	Daily Total (Pounds)	Grand Total (Pounds)
08/06/2001	9314130	36,380	454,980	454,980
	9314131	39,800		
	9314132	40,640		
	9314133	44,120		
	9314134	42,160		
	9314135	44,740		
	9314136	39,040		
	9314137	40,900		
	9314138	39,180		
	9314139	45,260		
08/07/2001	9314140	42,760	291,600	746,580
	9314141	42,020		
	9314142	39,700		
	9314143	45,320		
	9314144	42,240		
	9314145	34,780		
	9314146	37,740		
08/08/2001	9314147	49,800	582,780	1,329,360
	9314148	63,580		
	9314149	43,440		
	9314150	40,240		
	9314151	45,500		
	9314152	54,100		
	9314153	43,260		
	9314154	41,000		
	9314155	38,400		
	9314156	46,320		
	9314157	34,580		
	9314158	41,360		
	9314159	45,380		
	9314160	45,620		
08/09/2001	9314195	43,840	242,840	1,572,200
	9314196	42,260		
	9314197	70,060		
	9314198	38,200		
	9314199	48,480		

Roll-Off Boxes:

08/20/2001	9314200	30,480	55,520	55,520
	9314201	25,040		
08/21/2001	9314202	25,240	63,820	119,340
	9314203	38,580		

Table F-2
Hazardous Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Pounds)	Daily Total (Pounds)	Grand Total (Pounds)
08/22/2001	9314370	34,460	72,640	191,980
	9314371	38,180		
08/23/2001	9314372	41,160	41,160	233,140
08/24/2001	9314373	29,240	72,774	305,914
	9314380	43,534		
08/27/2001	9314381	41,340	41,340	347,254
08/28/2001	9314382	31,300	97,100	444,354
	9314383	35,900		
	9314384	29,900		
08/29/2001	9314385	26,060	26,060	470,414
08/31/2001	9314376	41,660	66,540	536,954
	9314377	24,880		
08/30/2001	9314386	29,140	60,120	597,074
	9314387	30,980		
09/06/2001	9314378	33,500	33,500	630,574
09/07/2001	9314379	35,520	66,080	696,654
	9312294	30,560		
09/12/2001	9312295	29,860	29,860	726,514
09/13/2001	9312296	30,660	30,660	701,654
Hazardous Waste Grand Total:				2,273,854

Table F-3
Hazardous Liquid Waste Disposal Quantities
Remedial Action
Peoples Gas - Rogers Park Pond and Main Parcels

Date	Manifest Number	Weight (Gallons)	Daily Total (Gallons)	Grand Total (Gallons)
08/03/2001	9352976*	5,300	20,400	20,400
	9352977*	5,000		
	9352978*	5,000		
	9352979*	5,100		
08/06/2001	9352981*	5,177	10,177	30,577
	9352983*	5,000		
08/07/2001	9352982*	5,000	15,400	45,977
	9352987*	5,200		
	9352991*	5,200		
08/08/2001	8778384*	5,300	16,030	62,007
	9352989*	5,490		
	9352990*	5,240		
08/09/2001	9352988*	5,240	5,240	67,247
08/15/2001	10025005	2,441	2,441	69,688
08/17/2001	9630903	1,500	1,500	71,188
08/22/2001	9273073	3,000	3,000	74,188
08/23/2001	10025034	5,303	5,303	79,491
08/24/2001	10025083	5,043	5,043	84,534
08/29/2001	10025094	5,203	5,203	89,737
09/10/2001	10025141	2,000	7,300	97,037
	10025142	5,300		
Hazardous Liquid Waste Grand Total:				97,037

* Note: Initially manifest listed incorrect USEPA and Illinois Generator Identification Numbers. The manifests were corrected, and corrected copies were sent to the Illinois EPA Division of Land Pollution Control, the transporter, and the disposal facility on October 31, 2001.

APPENDIX G
SAMPLE VALIDATION MEMORANDUM AND ANALYTICAL DATA

**SOIL SAMPLE DATA EVALUATION MEMORANDA
ROGERS PARK MAIN MGP SITE**

BURNS & McDONNELL

Client: Peoples Gas
Site: Rogers Park Pond Parcel

Project #: 27194
File No.: I.7

Title: Data Validation of Confirmation Soil Samples
Collected from June 21 to September 21, 2001

Prepared By: Kim Nichols/Scott Dawson
Date: August 10, 2001/
September 5, 2001/September 19, 2001
Checked By: Christy Barry/Kim Nichols
Date: August 13, 2001/
September 10, 2001

PURPOSE

The purpose of this document is to present the evaluation and validation of soil sampling analytical results.

VALIDATION CRITERIA

The evaluation and validation consisted of the following:

- Checked analytical holding times.
- Checked surrogate recoveries.
- Reviewed laboratory blank analyses.
- Reviewed laboratory control standards.
- Reviewed laboratory annotations.

SAMPLING EFFORT

Soil samples were collected at the Peoples Gas Rogers Park Pond Parcel in Chicago, Illinois from June 21 through June 29, 2001 and July 30-September 21, 2001. Soil samples were taken at specific confirmation locations during site remediation activities.

LABORATORY

Samples were analyzed and validated by STAT Analysis Corporation of Chicago, Illinois in accordance with Illinois Site Remediation Program analytical data reduction and validation guidelines.

CONCLUSIONS

Laboratory data have been reviewed and are acceptable for use with qualification. STAT Analysis Corporation, performed laboratory validation and determined that all analytical results were usable. In cases where laboratory standards were not met, data qualification was provided. Based on the provided information, Burns & McDonnell performed further evaluation and validation, determining that the overall quality of the analytical results was good; however due to minor analytical quality control problems such as poor surrogate recovery and laboratory control standards recovery, some resultant values were flagged estimated "J" or "UJ".

REFERENCES

The following reference documents were used:

- (1) Illinois Administrative Code, 1998. *Site Remediation Program*, Title 35: Environmental Protection, Subtitle G: Waste Disposal, Chapter I: Pollution Control Board, Part 740.
- (2) United States Environmental Protection Agency (USEPA), 1994. *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, February.
- (3) USEPA, 1994. *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, February.
- (4) USEPA, 1998. *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, EPA Publication No. SW-846, [Third Edition (September 1986), as amended by Updates I (July 1992), II (September 1994), IIA (August 1993), IIB (January 1995), III (December 1996), IVA (January 1998)].

SAMPLE INFORMATION

Table 1 presents sample numbers and analyses requested. Table 2 lists the methods used to analyze the soil samples.

HOLDING TIME EVALUATION

Table 3 presents the analytical holding times that were used to evaluate and validate the extractions and analyses performed. All sample extractions and analyses were performed within the holding time criteria; therefore, no qualification was necessary.

SURROGATE RECOVERY EVALUATION

Surrogate recoveries were above the acceptable laboratory limits for VOCs for RPM-CST-02U, RPM-CSH-02L, RPM-CSH-03L, RPM-CSH-04L, and RPM-B-Pipe; but all VOCs were non-detect; therefore, no qualification was necessary. Surrogate recovery was below acceptable laboratory limits for Toluene in RPM-CSH-07U-02, so it was qualified estimated, non-detect UJ.

LABORATORY BLANK ANALYSIS EVALUATION

Laboratory blanks were prepared and run for this sampling event. All laboratory blanks were non-detect; therefore, no qualification was necessary.

LABORATORY CONTROL STANDARDS EVALUATION

Laboratory control standards (LCS) were prepared and run for this sampling event. The total beryllium analysis laboratory control standard was below the acceptable limits for the following samples: RPP-CS01-001, RPP-CS04-001, RPP-CS05-001, RPP-CS07-001, and RPP-CS08-001. The SPLP beryllium analysis laboratory control standard was outside the acceptable limits for the following samples: RPP-CS01-001, RPP-CS04-001, RPP-CS05-001, RPP-CS07-001, and RPP-CS08-001. Therefore, all detected total and SPLP beryllium results for the aforementioned samples were qualified estimated "J" and all non-detect results were qualified estimated "UJ".

LABORATORY ANNOTATION REVIEW

A review of the STAT Analysis Corporation laboratory annotation indicates that the overall quality of the analytical results is acceptable.

Table 1
List of Sample Numbers and Analyses

Sample Number	Analyses
RPP-CS01-001	Polynuclear Aromatic Hydrocarbons (PAHs), Total and Synthetic Precipitation Leaching Procedure (SPLP) Lead,
RPP-CS02-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPP-CS03-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPP-CS04-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPP-CS04-002	PAHs
RPP-CS04-003	PAHs
RPP-CS04-004	PAHs
RPP-CS05-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPP-CS06-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPP-CS07-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPP-CS07-002	PAHs
RPP-CS07-003	PAHs
RPP-CS08-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPP-CS08-002	PAHs
RPP-CS08-003	PAHs
RPP-CS09-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPP-CS10-001	PAHs, Total and SPLP Lead, Chromium and Beryllium
RPM-CSH-01U	BTEX, Styrene, PAHs, Total and SPLP Lead

Table 1
List of Sample Numbers and Analyses

RPM-CSH-01L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-02U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-02L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-03U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-03L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-04U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-04L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-05U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-05L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-06U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-06U-02	BTEX, PAHs
RPM-CSH-06L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-07U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-07U-02	BTEX, PAHs
RPM-CSH-07L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-08U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-08L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CSH-09	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CST-01U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CST-01L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CST-02U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CST-02L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CST-03U	BTEX, Styrene, PAHs, Total and SPLP Lead

Table 1
List of Sample Numbers and Analyses

RPM-CST-03L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CST-04U	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CST-04L	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CST-05	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-N-PIPE	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-S-PIPE	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-B-PIPE	BTEX, Styrene, PAHs, Total and SPLP Lead
RPM-CS03-01	Total Lead and SPLP Lead

Table 2
Analytical Methods¹

Parameter	Analytical Method
BTEX	8260B
PAHs	8270C ¹
RCRA metals	6020 ¹
SPLP lead	1312/6020 ¹

Notes:

- (1) U.S. EPA 1998
- (2) ASTM 2001

Table 3
Analytical Holding Times

Analyses	Holding Time From Sample Collection⁽¹⁾
BTEX	14 days
PAHs	14 days to extraction, 40 days from extraction to analysis
RCRA metals	6 months
SPLP metals	180 days to Method 1312 extraction, 180 days from extraction to analysis

Note: (1) USEPA 1998 and Test America 2000.

**SOIL ANALYTICAL RESULTS DATA SHEETS
ROGERS PARK MAIN MGP SITE**

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 Tel: 312.733.0551 Fax: 312.733.2386
e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0.

June 27, 2001

Margaret Kelly
Burns & McDonnell
2601 W. 22nd Street
Oak Brook, Illinois 60523-1229
Phone: (630) 990-0300
Fax: (630) 990-0301

Re: Project Number/Name: 27193-4.07, Rogers Park
STAT Project Number: 702073
Date Received: June 20, 2001

STAT Sample Nos.: 918895 - 918903

Dear Ms. Kelly:

Enclosed are the analytical results for the above referenced project. The samples were analyzed as per the enclosed chain of custody.

All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 3rd Edition, December, 1996. Specific method references are listed on the analytical report. Where applicable, results are expressed on a dry weight basis as per method protocols.

All analyses were performed within the established holding times, and all quality control criteria, as outlined in the method have been met. QA/QC documentation and raw data will remain on file for future reference.

Thank you for the opportunity to serve you and we look forward to working with you in the future. If you have any questions about the enclosed materials, please call me at 312-733-0551.

Sincerely,



Craig Chawla
Project Manager

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP

&



Analytical Report

Client: Burns & McDonnell
Project ID: 27194-4.07, Rogers Park
Sample Number: 1, RPM-CS01-001
STAT Project No.: 702073
STAT Sample No.: 918895

Date Received: 6/21/01
Date Taken: 6/21/01
Time Taken: AM
Date Reported: 6/27/01

Analyte	Detection Limit	Result	Units
Solids, Total		82.06	%

Polynuclear Aromatic Hydrocarbons Method 8270C

Preparation Date: 6/21/01

Analysis Date: 6/21/01

Naphthalene	0.025	< 0.025	mg/Kg
Acenaphthylene	0.025	< 0.025	mg/Kg
Acenaphthene	0.025	< 0.025	mg/Kg
Fluorene	0.025	< 0.025	mg/Kg
Phenanthrene	0.025	0.045	mg/Kg
Anthracene	0.025	< 0.025	mg/Kg
Fluoranthene	0.025	0.050	mg/Kg
Pyrene	0.025	0.039	mg/Kg
Chrysene	0.025	0.029	mg/Kg
Benz[a]anthracene	0.025	0.027	mg/Kg
Benzo[b]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[k]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[a]pyrene	0.025	< 0.025	mg/Kg
Indeno[1,2,3-cd]pyrene	0.025	< 0.025	mg/Kg
Dibenz[a,h]anthracene	0.025	< 0.025	mg/Kg
Benzo[g,h,i]perylene	0.025	< 0.025	mg/Kg

Total Lead Method 6020

Analysis Date: 6/23/01

Lead	0.500	22.7	mg/Kg
------	-------	------	-------

SPLP Lead Method 1312/6020

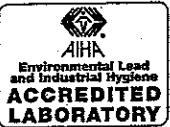
Analysis Date: 6/23/01

Lead	0.005	0.017	mg/L
------	-------	-------	------

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP &

Analytical Report

Client: Burns & McDonnell
Project ID: 27194-4.07, Rogers Park
Sample Number: 2, RPM-CS02-001
STAT Project No.: 702073
STAT Sample No.: 918896

Date Received: 6/21/01
Date Taken: 6/21/01
Time Taken: AM
Date Reported: 6/27/01

Analyte	Detection Limit	Result	Units
Solids, Total		80.53	%

Polynuclear Aromatic Hydrocarbons Method 8270C

Preparation Date: 6/21/01

Analysis Date: 6/21/01

Naphthalene	0.025	< 0.025	mg/Kg
Acenaphthylene	0.025	< 0.025	mg/Kg
Acenaphthene	0.025	< 0.025	mg/Kg
Fluorene	0.025	< 0.025	mg/Kg
Phenanthrene	0.025	0.222	mg/Kg
Anthracene	0.025	0.065	mg/Kg
Fluoranthene	0.025	0.336	mg/Kg
Pyrene	0.025	0.280	mg/Kg
Chrysene	0.025	0.245	mg/Kg
Benzo[a]anthracene	0.025	0.228	mg/Kg
Benzo[b]fluoranthene	0.025	0.104	mg/Kg
Benzo[k]fluoranthene	0.025	0.183	mg/Kg
Benzo[a]pyrene	0.025	0.201	mg/Kg
Indeno[1,2,3-cd]pyrene	0.025	0.119	mg/Kg
Dibenz[a,h]anthracene	0.025	0.046	mg/Kg
Benzo[g,h,i]perylene	0.025	0.108	mg/Kg

Total Lead Method 6020

Analysis Date: 6/23/01

Lead	0.500	114	mg/Kg
------	-------	-----	-------

SPLP Lead Method 1312/6020

Analysis Date: 6/23/01

Lead	0.005	0.022	mg/L
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STAT Analysis Corporation

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0



NVLAP®
N°: 702073

CHAIN OF CUSTODY RECORD

Page : of

Client Name: BURNS + McDONNELL
 Project Number: 27194-4.07
 Project Name: ROGERS PARK
 Location/Address: 10659 N. KEDZIE
 Samplers: T. GASS

Client Sample No.:	Sample Description	Date Taken	Time Taken	Comp.	Grab	No. of Containers	TYPE OF ANALYSES										Turnaround Time: (days)	Results Needed:
							PAH	TOTAL LEAD	SPLP LEAD	TOTAL Pb	CFS	TOTAL Pb - FRS	SPLP Pb - FRS					
1	RPM-CS01-001	6/21/01	AM	X		2/4oz	X	XX									1 / am/pm	Remarks Lab No.
2	RPM-CS02-001	6/21/01	AM	X		1		XX	Y								918895	918896
3	RPE-CS03-001	6/21/01	AM	X		1		XX	Y								918897	918898
4	RPE-CS04-001	6/21/01	AM	X		1		XX	Y								918899	918900
5	RPP-CS01-001	6/21/01	PM	X		2/4oz	X		XX								918901	918902
6	RPP-CS04-001	6/21/01	PM	X		1		X		XX							918903	
7	RPP-CS05-001	6/21/01	PM	X		1		X		XX								
8	RPP-CS07-001	6/21/01	PM	X		1		X		XX								
9	RPP-CS08-001	6/21/01	PM	X		1		X		XX								

RUSH
24-HOUR
T.O.T

Relinquished by: (Signature)	D. S.	Date/Time: 6/21/01 1500	Lab Use: <input checked="" type="checkbox"/> Customer OK <input type="checkbox"/>	Sample Verification: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Contact Information: <input type="checkbox"/>
Received by: (Signature)	STAT	Date/Time: 6/21/01 1500	Comments: <input type="checkbox"/>	Refrigerated (Temp): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Phone Number: (630) 990 0300
Relinquished by: (Signature)		Date/Time:	Samples leaking: <input type="checkbox"/>	Sample Labels Match Sample ID: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Fax Number:
Received for: (Signature)		Date/Time: 6/21/01 162	Refrigerated (Temp): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Attention: M. MILLER	Other Contact: L. MILLNER
Relinquished by: (Signature)		Date/Time:			

2C
SOIL PNA SURROGATE RECOVERY

Lab Name: STAT Analysis Contract: Burns&McDonnell
 Project No : 702073 Site: _____ Location: _____ Group: _____

	Sample No.	S1	S2	S3	Total Out
01	PNA Soil Blank-2 06/21/01	37	37	44	0
02	PNA Soil LCS-2 06/21/01	37	36	42	0
03	RPM-CS01-001	29	33	40	0
04	RPM-CS02-001	40	47	59	0
05	RPE-CS03-001	39	40	42	0
06	RPE-CS04-001	17*	35	58	1
07	RPP-CS01-001	23	25*	31	1
08	RPP-CS04-001	60	65	70	0
09	RPP-CS05-001	30	29*	34	1
10	RPP-CS07-001	26	34	61	0
11	RPP-CS08-001	30	31	55	0
12	918797	37	38	43	0
13	918797MS	34	36	63	0
14	918797MSD	48	46	58	0

S1 (NBZ) = d5-Nitrobenzene
 S2 (FBP) = 2-Fluorobiphenyl
 S3 (TPH) = Terphenyl-d14

QC LIMITS

(23-120)

(30-115)

(18-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted out

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKSOI

Lab Name: STAT Analysis

Lab Code: Case No.:
Lab File ID: 06220111.D

Contract: Burns&McDonnell

SAS No.: SDG No.:
Lab Sample ID: PNA BLANK

Instrument ID: GC/MS-SVOC-2

Date Extracted: 06/21/01

Matrix: (soil/water) SOIL

Date Analyzed: 06/22/01

Level: (low/med) LOW

Time Analyzed: 14:36

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PNA SOIL LCS-2 06/21/01	PNASLCS062101	06220112.D	06/22/01
02	RPM-CS01-001	918895	06250139.D	06/25/01
03	RPM-CS02-001	918896	06210125.D	06/21/01
04	RPE-CS03-001	918897	06210126.D	06/21/01
05	RPE-CS04-001	918898	06250140.D	06/25/01
06	RPE-CS01-001	918899	06250141.D	06/25/01
07	RPP-CS04-001	918900	06210129.D	06/21/01
08	RPP-CS05-001	918901	06220107.D	06/22/01
09	RPP-CS07-001	918902	06210131.D	06/21/01
10	RPP-CS08-001	918903	06220108.D	06/22/01
11	918797	918797	06210133.D	06/21/01
12	918797MS	918797MS	06210134.D	06/21/01
13	918797MSD	918797MSD	06210135.D	06/21/01

COMMENTS:

3 C
SOIL POLYNUCLEAR AROMATIC LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: STAT Analysis Corporation Contract: Burns & McDonnell
 Lab Code: 702073 Case No.: SAS No.: SDG No.:
 LCS - Sample ID: SBLNK -2 062101

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Naphthalene	167	0	61	37	30-140
Acenaphthylene	167	0	71	42	30-140
Acenaphthene	167	0	56	34	31-137
Fluorene	167	0	68	41	30-140
Phenanthrene	167	0	65	39	30-140
Anthracene	167	0	72	43	30-140
Fluoranthene	167	0	72	43	30-140
Pyrene	167	0	69	41	35-142
Benzo(a)anthracene	167	0	93	56	30-140
Chrysene	167	0	94	56	30-140
Benzo(b)fluoranthene	167	0	87	52	30-140
Benzo(k)fluoranthene	167	0	92	55	30-140
Benzo(a)pyrene	167	0	85	51	30-140
Ideeno(1,2,3-cd)pyrene	167	0	104	63	30-140
Dibenz(a,h)anthrancene	167	0	99	59	30-140
Benzo(g,h,i) perylene	167	0	95	57	30-140

Column to be used to flag recovery with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

3 C
SOIL POLYNUCLEAR AROMATIC MATRIX SPIKE/ MATIX SPIKE DUPLICATE RECOVERY

Lab Name: Stat Analysis Contract: Burns & McDonnell

Lab Code: 702073 Case No.: SAS No.: SDG No.:

Matrix Spike - Sample ID: 918797

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Naphthalene	167	33	72	23 *	30-140
Acenaphthylene	167	11	68	35	30-140
Acenaphthene	167	9	63	32	31-137
Fluorene	167	6	62	34	30-140
Phenanthrene	167	192	250	35	30-140
Anthracene	167	14	103	53	30-140
Fluoranthene	167	34	116	49	30-140
Pyrene	167	43	121	47	35-142
Benzo(a)anthracene	167	28	136	65	30-140
Chrysene	167	31	134	62	30-140
Benzo(b)fluoranthene	167	12	64	31	30-140
Benzo(k)fluoranthene	167	10	92	49	30-140
Benzo(a)pyrene	167	11	79	41	30-140
Iproto(1,2,3-cd)pyrene	167	7	96	53	30-140
Dibenz(a,h)anthracene	167	4	89	51	30-140
Benzo(g,h,i)perylene	167	7	85	47	30-140

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #		QC LIMITS RPD	REC
Naphthalene	167	98	39	49 *		25	30-140
Acenaphthylene	167	73	37	7		25	30-140
Acenaphthene	167	68	35	9		25	31-137
Fluorene	167	67	36	8		25	30-140
Phenanthrene	167	198	4 *	160 *		25	30-140
Anthracene	167	99	51	4		25	30-140
Fluoranthene	167	104	42	16		25	30-140
Pyrene	167	109	40	16		25	35-142
Benzo(a)anthracene	167	125	58	11		25	30-140
Chrysene	167	122	54	13		25	30-140
Benzo(b)fluoranthene	167	74	37	18		25	30-140
Benzo(k)fluoranthene	167	81	42	25		25	30-140
Benzo(a)pyrene	167	72	36	11		25	30-140
Iproto(1,2,3-cd)pyrene	167	85	47	12		25	30-140
Dibenz(a,h)anthracene	167	79	45	11		25	30-140
Benzo(g,h,i)perylene	167	76	41	12		25	30-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 16 outside limits

Spike Recovery: 2 out of 32 outside limits

COMMENTS: _____



INORGANIC Initial Batch QC

Lab Name: STAT Analysis Corporation
Project No.: 27194-4.07
Batch No.: 702073
Associated Samples: 918895 - 918903

Contract: Burns & McDonnell
Instrument: ICPMS

Analyte	LCS 1 ($\mu\text{g/L}$)			LCS 2 ($\mu\text{g/L}$)			Preparation Blank		M	
	True	Found	%R	True	Found	%R	RPD	C		
Beryllium	500	395	78.9	500	390	78.0	1.15		0.03	MS
Chromium	500	481	96.1	500	496	99.1	3.07		0.45	MS
Lead	500	489	97.8	500	485	97.0	0.86		0.36	MS

INORGANIC Matrix Spike and Matrix Spike Duplicate Recovery Form

Lab Name: STAT Analysis Corporation
Batch No.: 702073
Project No.: 27194-4.07
Matrix (soil/water): Soil
Concentration Units: µg/L
Associated Samples: 918895 - 918903

Instrument: ICPMS

Sample No.: 918895

Sample Spike No.: 918895 MS

Sample Spike Duplicate No.: 918895 MSD

Analyte	Spike Added	Spike Added	Sample Result	MS	%R	C	MSD	%R	C	RPD	Q	M
	MS	MSD										
Beryllium	500	500	15.4	393	75.5		440	84.9		11.3		MS
Chromium	500	500	425	724	59.8	M	867	88.4		18.0		MS
Lead	500	500	481	802	64.2	M	969	97.6		18.9		MS

\mathcal{M} = Matrix Interference

STAT**Analvsis Corporation:**

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP**&****INORGANIC Initial Batch QC**

Lab Name: STAT Analysis Corporation
 Project No.: 27194-4.07
 Batch No.: 702073
 Associated Samples: 918895-918903

Contract: Burns & McDonnell
 Instrument: ICPMS

	LCS 1 ($\mu\text{g/L}$)			LCS 2 ($\mu\text{g/L}$)			RPD	C	Preparation Blank	
Beryllium	500	387	77.4	500	373	74.6	3.6		0.00	MS
Chromium	500	444	88.7	500	423	84.5	4.8		0.05	MS
Lead	500	453	90.5	500	451	90.3	0.2		0.36	MS

INORGANIC Matrix Spike and Matrix Spike Duplicate Recovery Form

Lab Name: STAT Analysis Corporation
 Batch No.: 702073
 Project No.: 27194-4.07
 Matrix (soil/water): SPLP
 Concentration Units: mg/L
 Associated Samples: 918895-918903

Instrument: ICPMS
 ICPMS
 Sample No.: 918895
 Sample Spike No.: 918895MS
 Sample Spike Duplicate No.: 918895MSD

Analyte	Spike Added MS	Spike Added MSD	Sample Result	MS	%R	C	MSD	%R	C	RPD	Q	M
Beryllium	500	500	7.06	397	78.0		389	76.4		2.1		MS
Chromium	500	500	21.3	469	89.6		445	84.7		5.3		MS
Lead	500	500	16.6	496	95.9		478	92.4		3.6		MS

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 Tel: 312.733.0551 Fax: 312.733.2386
e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0.

June 27, 2001

Margaret Kelly
Burns & McDonnell
2601 W. 22nd Street
Oak Brook, Illinois 60523-1229
Phone: (630) 990-0300
Fax: (630) 990-0301

Re: Project Number/Name: 27194-4.07, Rogers Park Sub Shop
STAT Project Number: 702099 STAT Sample Nos.: 919027 - 919030
Date Received: June 25, 2001

Dear Ms. Kelly:

Enclosed are the analytical results for the above referenced project. The samples were analyzed as per the enclosed chain of custody.

All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 3rd Edition, December, 1996. Specific method references are listed on the analytical report. Results are expressed on a dry weight basis as per method protocols.

All analyses were performed within the established holding times, and all quality control criteria, as outlined in the method have been met. QA/QC documentation and raw data will remain on file for future reference.

Thank you for the opportunity to serve you and we look forward to working with you in the future. If you have any questions about the enclosed materials, please call me at 312-733-0551.

Sincerely,



Craig Chawla
Project Manager

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP

&



Analytical Report

Client: Burns & McDonnell

Project ID: 27194-4.07, Rogers Park Sub Shop

Date Received: 6/25/01

Sample Number: 2, RPM-CS02-002

Date Taken: 6/25/01

STAT Project No.: 702099

Time Taken: AM

STAT Sample No.: 919028

Date Reported: 6/27/01

Analyte	Detection Limit	Result	Units
Solids, Total		83.14	%

Polynuclear Aromatic Hydrocarbons Method 8270C

Preparation Date: 6/26/01

Analysis Date: 6/26/01

Naphthalene	0.025	< 0.025	mg/Kg
Acenaphthylene	0.025	< 0.025	mg/Kg
Acenaphthene	0.025	0.030	mg/Kg
Fluorene	0.025	0.051	mg/Kg
Phenanthrene	0.025	0.689	mg/Kg
Anthracene	0.025	0.191	mg/Kg
Fluoranthene	0.025	1.55	mg/Kg
Pyrene	0.025	1.24	mg/Kg
Chrysene	0.025	0.740	mg/Kg
Benzo[a]anthracene	0.025	0.642	mg/Kg
Benzo[b]fluoranthene	0.025	0.453	mg/Kg
Benzo[k]fluoranthene	0.025	0.469	mg/Kg
Benzo[a]pyrene	0.025	0.467	mg/Kg
Indeno[1,2,3-cd]pyrene	0.025	0.209	mg/Kg
Dibenz[a,h]anthracene	0.025	0.092	mg/Kg
Benzo[g,h,i]perylene	0.025	0.180	mg/Kg



Nº: 700099

CHAIN OF CUSTODY RECORD

Page : of

Relinquished by: (Signature)

Did you
see [unclear]

Date/Time: 14:30 0/25

Received by: (Signature)

SAC Bane

Date/Time: 14:30 6/26/0

Relinquished by: (Signature)

Ellen Davis

Date/Time:

Received for lab by: (Signature)

Ellen Davis

Date/Time: 6-15-01 1735

Lab. Use

- Container OK

- Samples Leaf

- Refrigerated

Sample Verification

Yes No

Yes No

Yes No

— Contact Information:

Phone Number:

Fax Number:

Attention:

2C
SOIL PNA SURROGATE RECOVERY

Lab Name: STAT Analysis Contract: Burns&McDonnell
 Project No: 702099 Site: _____ Location: _____ Group: _____

	Sample No.	S1	S2	S3	Total Out
01	PNA Soil Blank 06/26/01	45	46	79	0
02	PNA Soil LCS 06/26/01	48	50	85	0
03	RPP-CS08-002	32	40	84	0
04	RPM-CS02-002	36	60	87	0
05	RPM-CS02-002 D	30	50	80	0
06	RPP-CS04-002	51	72	96	0
07	RPP-CS04-002 D	36	66	102	0
08	RPP-CS07-002	33	60	87	0
09	919088	60	48	72	0
10	919088MS	63	52	76	0
11	919088MSD	62	47	104	0

S1 (NBZ) = d5-Nitrobenzene
 S2 (FBP) = 2-Fluorobiphenyl
 S3 (TPH) = Terphenyl-d14

QC LIMITS
 (23-120)
 (30-115)
 (18-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted out

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKSOI

Lab Name: STAT Analysis
 Lab Code: Case No.:
 Lab File ID: 06260106.D
 Instrument ID: GC/MS-SVOC-2
 Matrix: (soil/water) SOIL
 Level: (low/med) LOW

Contract: Burns&McDonnell
 SAS No.: SDG No.:
 Lab Sample ID: PNA BLANK

Date Extracted: 06/26/01
 Date Analyzed: 06/26/01
 Time Analyzed: 15:58

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01 PNA SOIL LCS 06/26/01	PNASLCS062601	06260113.D	06/26/01
02 RPP-CS08-002	919027	06260114.D	06/26/01
03 RPM-CS02-002	919028	06260116.D	06/26/01
04 RPM-CS02-002 D	919028 D	06260117.D	06/26/01
05 RPP-CS04-002	919029	06260118.D	06/26/01
06 RPP-CS04-002 D	919029 D	06260119.D	06/26/01
07 RPP-CS07-002	919030	06260120.D	06/26/01
08 RPP-CS07-002 D	919030 D	06260121.D	06/26/01
09 919088	919088	06260118.D	06/26/01
10 919088MS	919088MS	06260119.D	06/26/01
11 919088MSD	919088MSD	06260120.D	06/26/01
12			
13			
14			
15			

COMMENTS:

3 C
SOIL POLYNUCLEAR AROMATIC LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: STAT Analysis Corporation Contract: Burns & McDonnell
 Lab Code: 702099 Case No.: SAS No.: SDG No.:
 LCS - Sample ID: SBLNK 062601

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Naphthalene	167	0	64	38	30-140
Acenaphthylene	167	0	84	50	30-140
Acenaphthene	167	0	69	42	31-137
Fluorene	167	0	88	53	30-140
Phenanthrene	167	0	88	53	30-140
Anthracene	167	0	98	58	30-140
Fluoranthene	167	0	110	66	30-140
Pyrene	167	0	107	64	35-142
Benzo(a)anthracene	167	0	96	58	30-140
Chrysene	167	0	94	56	30-140
Benzo(b)fluoranthene	167	0	91	54	30-140
Benzo(k)fluoranthene	167	0	82	49	30-140
Benzo(a)pyrene	167	0	75	45	30-140
Indeno(1,2,3-cd)pyrene	167	0	64	38	30-140
Dibenz(a,h)anthracene	167	0	66	40	30-140
Benzo(g,h,i) perylene	167	0	58	35	30-140

Column to be used to flag recovery with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS: _____

3 C
SOIL POLYNUCLEAR AROMATIC MATRIX SPIKE/ MATIX SPIKE DUPLICATE RECOVERY

Lab Name: Stat Analysis

Contract: Burns & McDonnell

Lab Code: 702099

Case No.:

SAS No.:

SDG No.:

Matrix Spike - Sample ID: 919088

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Naphthalene	167	1	70	41	30-140
Acenaphthylene	167	0	77	46	30-140
Acenaphthene	167	1	80	47	31-137
Fluorene	167	1	74	44	30-140
Phenanthrene	167	1	80	48	30-140
Anthracene	167	0	97	58	30-140
Fluoranthene	167	0	87	52	30-140
Pyrene	167	1	80	47	35-142
Benzo(a)anthracene	167	0	65	39	30-140
Chrysene	167	1	98	58	30-140
Benzo(b)fluoranthene	167	0	55	33	30-140
Benzo(k)fluoranthene	167	0	54	32	30-140
Benzo(a)pyrene	167	0	55	33	30-140
Indeno(1,2,3-cd)pyrene	167	0	46	27 *	30-140
Dibenz(a,h)anthracene	167	0	58	35	30-140
Benzo(g,h,i) perylene	167	0	58	35	30-140

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC
Naphthalene	167	61	36	13	25	30-140
Acenaphthylene	167	83	50	8	25	30-140
Acenaphthene	167	77	46	4	25	31-137
Fluorene	167	88	52	17	25	30-140
Phenanthrene	167	96	57	18	25	30-140
Anthracene	167	112	67	14	25	30-140
Fluoranthene	167	110	66	23	25	30-140
Pyrene	167	108	64	30 *	25	35-142
Benzo(a)anthracene	167	80	48	20	25	30-140
Chrysene	167	101	60	3	25	30-140
Benzo(b)fluoranthene	167	59	35	8	25	30-140
Benzo(k)fluoranthene	167	56	34	25	25	30-140
Benzo(a)pyrene	167	53	32	3	25	30-140
Indeno(1,2,3-cd)pyrene	167	50	30	9	25	30-140
Dibenz(a,h)anthracene	167	60	36	3	25	30-140
Benzo(g,h,i) perylene	167	55	33	5	25	30-140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 16 outside limits
 Spike Recovery: 1 out of 32 outside limits

COMMENTS: _____

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP &**Analytical Report**

Client: Burns and McDonnell

Project ID: 27194-4.07, Rogers Park Main

Sample Number: RPM-CST-03L

STAT Project No.: 702465

STAT Sample No.: 921174

Date Received: 8/15/01

Date Taken: 8/15/01

Time Taken: 8:00 AM

Date Reported: 8/23/01

Analyte	Detection Limit	Result	Units
---------	-----------------	--------	-------

Solids, Total		83.09	%
---------------	--	-------	---

BTEX/Styrene Method 5035/8260B

Analysis Date: 8/16/01

Benzene	0.002	< 0.002	mg/Kg
Toluene	0.005	< 0.005	mg/Kg
Ethyl Benzene	0.005	< 0.005	mg/Kg
Xylenes (total)	0.005	< 0.005	mg/Kg
Styrene	0.005	< 0.005	mg/Kg

Polynuclear Aromatic Hydrocarbons Method 8270C

Preparation Date: 8/16/01

Analysis Date: 8/17/01

Naphthalene	0.025	< 0.025	mg/Kg
Acenaphthylene	0.025	< 0.025	mg/Kg
Acenaphthene	0.025	< 0.025	mg/Kg
Fluorene	0.025	< 0.025	mg/Kg
Phenanthrene	0.025	< 0.025	mg/Kg
Anthracene	0.025	< 0.025	mg/Kg
Fluoranthene	0.025	< 0.025	mg/Kg
Pyrene	0.025	< 0.025	mg/Kg
Chrysene	0.025	< 0.025	mg/Kg
Benzo[a]anthracene	0.025	< 0.025	mg/Kg
Benzo[b]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[k]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[a]pyrene	0.025	< 0.025	mg/Kg
Indeno[1,2,3-cd]pyrene	0.025	< 0.025	mg/Kg
Dibenz[a,h]anthracene	0.025	< 0.025	mg/Kg
Benzo[g,h,i]perylene	0.025	< 0.025	mg/Kg

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP &



Analytical Report

Client: Burns and McDonnell
Project ID: 27194-4.07, Rogers Park Main
Sample Number: RPM-CST-03L
STAT Project No.: 702465
STAT Sample No.: 921174

Date Received: 8/15/01
Date Taken: 8/15/01
Time Taken: 8:00 AM
Date Reported: 8/23/01

Analyte	Detection Limit	Result	Units
Lead Method 6020			
Analysis Date:	8/17/01		
Lead	0.500	16.1	mg/Kg
SPLP Lead Method 1312/6020			
Analysis Date:	8/18/01		
SPLP Lead	0.005	0.013	mg/L

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP &**Analytical Report**

Client: Burns and McDonnell
 Project ID: 27194-4.07, Rogers Park Main
 Sample Number: RPM-CST-03U
 STAT Project No.: 702465
 STAT Sample No.: 921175

Date Received: 8/15/01
 Date Taken: 8/15/01
 Time Taken: 8:00 AM
 Date Reported: 8/23/01

Analyte	Detection Limit	Result	Units
Solids, Total		83.11	%

BTEX/Styrene Method 5035/8260B

Analysis Date: 8/16/01

Benzene	0.002	< 0.002	mg/Kg
Toluene	0.005	< 0.005	mg/Kg
Ethyl Benzene	0.005	< 0.005	mg/Kg
Xylenes (total)	0.005	< 0.005	mg/Kg
Styrene	0.005	< 0.005	mg/Kg

Polynuclear Aromatic Hydrocarbons Method 8270C

Preparation Date: 8/16/01

Analysis Date: 8/17/01

Naphthalene	0.025	< 0.025	mg/Kg
Acenaphthylene	0.025	< 0.025	mg/Kg
Acenaphthene	0.025	< 0.025	mg/Kg
Fluorene	0.025	< 0.025	mg/Kg
Phenanthrene	0.025	< 0.025	mg/Kg
Anthracene	0.025	< 0.025	mg/Kg
Fluoranthene	0.025	< 0.025	mg/Kg
Pyrene	0.025	< 0.025	mg/Kg
Chrysene	0.025	< 0.025	mg/Kg
Benzo[a]anthracene	0.025	< 0.025	mg/Kg
Benzo[b]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[k]fluoranthene	0.025	< 0.025	mg/Kg
Benzo[a]pyrene	0.025	< 0.025	mg/Kg
Indeno[1,2,3-cd]pyrene	0.025	< 0.025	mg/Kg
Dibenz[a,h]anthracene	0.025	< 0.025	mg/Kg
Benzo[g,h,i]perylene	0.025	< 0.025	mg/Kg

STAT Analysis Corporation:

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NVLAP &



Analytical Report

Client: Burns and McDonnell
Project ID: 27194-4.07, Rogers Park Main
Sample Number: RPM-CST-03U
STAT Project No.: 702465
STAT Sample No.: 921175

Date Received: 8/15/01
Date Taken: 8/15/01
Time Taken: 8:00 AM
Date Reported: 8/23/01

Analyte	Detection Limit	Result	Units
Lead Method 6020			
Analysis Date:	8/17/01		
Lead	0.500	14.2	mg/Kg
SPLP Lead Method 1312/6020			
Analysis Date:	8/18/01		
SPLP Lead	0.005	< 0.005	mg/L

2 D

SOIL POLYNUCLEAR AROMATIC HYDROCARBON SURROGATE RECOVERY

Lab Name: STAT Analysis CorporationContract: Burns & McDonnellLab Code: 702465Case No.: SAS No.: SDG No.: Level: (low/med) LOW

	EPA SAMPLE NO.	S1 DCB	#	S2 NBZ	#	S3 2FB	#	S4 TPH	#	TOT OUT
01	SBLNK-2 081601	57		72		103		.91		0
02	SLCS-2 081601	53		75		103		.96		0
03	RPM-CST-03L	51		66		67		.97		0
04	RPM-CST-03U	42		51		59		.64		0
05	RPM-CSH-06L	45		60		91		.86		0
06	RPM-CSH-06U	45		54		60		111		0
07	RPM-CSH-06U D	90		60		60		.90		0
08	RPM-CSH-07L	39		39		79		.72		0
09	RPM-CSH-07U	110		40		115		125		0
10	920956	37		49		73		.73		0
11	920956MS	46		57		69		.81		0
12	920956MSD	42		48		77		.76		0
13										
14										
15										
16										
17										
18										
19										
20										

QC LIMITS

S1 DCB	=	1,2-Dichlorobenzene-d4	20 - 130
S2 NBZ	=	Nitrobenzene-d5	23 - 120
S3 2FB	=	2-Fluorobiphenyl	30 - 115
S4 TPH	=	p-Terphenyl-d14	18 - 137

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

POLYNUCLEAR AROMATIC HYDROCARBON METHOD BLANK SUMMARY

Lab Name:	STAT Analysis Corporation	Contract:	Burns & McDonnell	SBLNK-2 081601
Lab Code:	702465	Case No.:	SAS No.:	SDG No.:
Lab File ID:	08170104.D	Lab Sample ID:		
Instrument ID:	SVOC-2	Date Extracted: 8/16/01		
Matrix: (soil/water)	SOIL	Date Analyzed: 8/17/01		
Level: (low/med)	LOW	Time Analyzed: 10:21 AM		

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PNA SOIL LCS-2 081601	PNA SLCS-2 081601	08170106.D	8/17/01
02	RPM-CST-03L	921174	08170107.D	8/17/01
03	RPM-CST-03U	921175	08170108.D	8/17/01
04	RPM-CSH-06L	921176	08170109.D	8/17/01
05	RPM-CSH-06U	921177	08170110.D	8/17/01
06	RPM-CSH-06U D	921177 D	08170111.D	8/17/01
07	RPM-CSH-07L	921178	08170112.D	8/17/01
08	RPM-CSH-07U	921179	08170113.D	8/17/01
09	920956	920956	08170114.D	8/17/01
10	920956MS	920956MS	08170115.D	8/17/01
11	920956MSD	920956MSD	08170116.D	8/17/01
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				

COMMENTS:

3 C

Lab Name: STAT Analysis Corporation

Contract: Burns&McDonnell

Lab Code: 702465

Case No.: SAS No.: SDG No.:

LCS - Sample ID: SLCS-2 081601

Compound	SPIKE ADDED (ug/Kg)	BLANK CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC
Naphthalene	167	0	154	92	30-130
Acenaphthylene	167	0	182	109	30-130
Acenaphthene	167	0	119	71	30-130
Fluorene	167	0	109	66	30-130
Phenanthrene	167	0	135	81	30-130
Anthracene	167	0	136	81	30-130
Fluoranthene	167	0	148	88	30-130
Pyrene	167	0	153	92	30-130
Benzo(a)anthracene	167	0	81	48	30-130
Chrysene	167	0	74	44	30-130
Benzo(b)fluoranthene	167	0	135	81	30-130
Benzo(k)fluoranthene	167	0	83	50	30-130
Benzo(a)pyrene	167	0	71	43	30-130
Indeno(1,2,3-cd)pyrene	167	0	63	38	30-130
Dibenz(a,h)anthracene	167	0	61	37	30-130
Benzo(g,h,i) perlylene	167	0	65	39	30-130

Column to be used to flag recovery with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

FORM III SV-2

DLM03.0

3 C
SOIL POLYNUCLEAR AROMATIC MATRIX SPIKE/ MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STAT Analysis Corporation Contract: Burns&McDonnell

Lab Code: 702465 Case No.: SAS No.: SDG No.:

Matrix Spike - Sample ID: 920956

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Naphthalene	167	2	102	60	30-130
Acenaphthylene	167	1	131	78	30-130
Acenaphthene	167	1	85	50	30-130
Fluorene	167	0	86	51	30-130
Phenanthrene	167	1	100	59	30-130
Anthracene	167	0	96	58	30-130
Fluoranthene	167	1	130	77	30-130
Pyrene	167	2	133	78	30-130
Benzo(a)anthracene	167	1	85	50	30-130
Chrysene	167	1	75	44	30-130
Benzo(b)fluoranthene	167	1	100	59	30-130
Benzo(k)fluoranthene	167	0	71	43	30-130
Benzo(a)pyrene	167	0	70	42	30-130
Indeno(1,2,3-cd)pyrene	167	0	72	43	30-130
Dibenz(a,h)anthracene	167	0	61	36	30-130
Benzo(g,h,i)perylene	167	0	69	41	30-130

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC
Naphthalene	167	100	59	2	50	30-130
Acenaphthylene	167	134	79	2	50	30-130
Acenaphthene	167	83	49	2	50	30-130
Fluorene	167	86	51	1	50	30-130
Phenanthrene	167	107	63	6	50	30-130
Anthracene	167	103	62	7	50	30-130
Fluoranthene	167	126	75	3	50	30-130
Pyrene	167	131	78	1	50	30-130
Benzo(a)anthracene	167	77	46	10	50	30-130
Chrysene	167	80	48	7	50	30-130
Benzo(b)fluoranthene	167	118	70	17	50	30-130
Benzo(k)fluoranthene	167	87	52	19	50	30-130
Benzo(a)pyrene	167	66	39	6	50	30-130
Indeno(1,2,3-cd)pyrene	167	63	38	13	50	30-130
Dibenz(a,h)anthracene	167	62	37	1	50	30-130
Benzo(g,h,i)perylene	167	65	39	6	50	30-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 16 outside limits
Spike Recovery: 0 out of 32 outside limits

COMMENTS: _____

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP &**INORGANIC Initial Batch QC**

Lab Name: STAT Analysis Corporation
Project No.: 27194-4.07
Batch No.: 702465
Associated Samples: 921174 - 921179
Matrix: Soil

Contract: Burns & McDonnell
Instrument: ICPMS

Analyte	LCS 1 ($\mu\text{g/L}$)			LCS 2 ($\mu\text{g/L}$)			RPD	C	Preparation		M
	True	Found	%R	True	Found	%R			Blank	C	
Lead	500	554	111	500	562	112	1.5		0.63		MS

STAT Analysis Corporation:

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NVLAP &

INORGANIC Matrix Spike and Matrix Spike Duplicate Recovery Form

Lab Name: STAT Analysis Corporation

Instrument: ICPMS

Project No.: 27194-4.07

Batch No.: 702465

Sample No.: 921174

Associated Samples: 921174 - 921179

Sample Spike No.: 921174 MS

Matrix: Soil

Sample Spike Duplicate No.: 921174 MSD

Concentration Units: mg/Kg

Analyte	Spike Added MS	Spike Added MSD	Sample Result	MS	%R	C	MSD	%R	C	RPD	Q	M
Lead	23.5	24.6	13.4	40.1	114		40.9	112		1.9		MS

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP &**INORGANIC Initial Batch QC**

Lab Name: STAT Analysis Corporation
Project No.: 27194-4.07
Batch No.: 702465
Associated Samples: 921174 - 921179
Matrix: Aqueous

Contract: Burns & McDonnell
Instrument: ICPMS

Analyte	LCS 1 ($\mu\text{g/L}$)			LCS 2 ($\mu\text{g/L}$)			RPD	C	Preparation		M
	True	Found	%R	True	Found	%R			Blank	C	
Lead	2,000	1,812	90.6	2,000	1,847	92.4	1.9		0.72		MS

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

NVLAP &

INORGANIC Matrix Spike and Matrix Spike Duplicate Recovery Form

Lab Name: STAT Analysis Corporation

Instrument: ICPMS

Project No.: 27194-4.07

Batch No.: 702465

Sample No.: 221941-001

Associated Samples: 921174 - 921179

Sample Spike No.: 221941-001 MS

Matrix: Aqueous

Sample Spike Duplicate No.: 221941-001 MSD

Concentration Units: µg/L

Analyte	Spike Added MS	Spike Added MSD	Sample Result	MS	%R	C	MSD	%R	C	RPD	Q	M
Lead	2,000	2,000	25.4	1,908	94.1		1,862	91.8		2.4		MS

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547
Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Date: 8/29/01

INVOICE

Burns & McDonnell
2601 W. 22nd Street
Oak Brook, Illinois 60523-1229
Phone: (630) 990-0300
Fax: (630) 990-0301

Invoice No.: 702465

Client: Burns & McDonnell
Client Reference: 27194-4.07, Rogers Park Main
Batch Number: 702465

ANALYTICAL FEES for 6 samples:

6	BTEX/Styrene	samples @	\$ 40.00 / sample	\$ 240.00
6	PAH	samples @	\$ 90.00 / sample	\$ 540.00
6	Total Lead	samples @	\$ 10.00 / sample	\$ 60.00
6	SPLP Lead	samples @	\$ 65.00 / sample	\$ 390.00

Sub-Total:	\$ 1,230.00
6 EPA Method 5035 Kit @ \$7.00/kit:	\$ 42.00
Total Amount Due:	\$ 1,272.00

INVOICE TERMS: NET 30 DAYS

Please Remit Invoice to: STAT Analysis Corporation
2201 W. Campbell Park Drive
Chicago, Illinois 60612-3547

STAT Analysis Corporation:

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547

Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

Date: 8/29/01

INVOICE

Burns & McDonnell
2601 W. 22nd Street
Oak Brook, Illinois 60523-1229
Phone: (630) 990-0300
Fax: (630) 990-0301

Invoice No.: 702465

Client: Burns & McDonnell
Client Reference: 27194-4.07, Rogers Park Main
Batch Number: 702465

ANALYTICAL FEES for 6 samples:

6	BTEX/Styrene	samples @ \$	40.00 / sample	\$ 240.00
6	PAH	samples @ \$	90.00 / sample	\$ 540.00
6	Total Lead	samples @ \$	10.00 / sample	\$ 60.00
6	SPLP Lead	samples @ \$	65.00 / sample	\$ 390.00

Sub-Total:	\$ 1,230.00
6 EPA Method 5035 Kit @ \$7.00/kit:	\$ 42.00
Total Amount Due:	\$ 1,272.00

INVOICE TERMS: NET 30 DAYS

Please Remit Invoice to: STAT Analysis Corporation
2201 W. Campbell Park Drive
Chicago, Illinois 60612-3547

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 Tel: 312.733.0551 Fax: 312.733.2386
e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0.

August 23, 2001

Margaret Kelley
Burns & McDonnell
2601 W. 22nd Street
Oak Brook, Illinois 60523-1229
Phone: (630) 990-0300.
Fax: (630) 990-0301

Re: Project Number/Name: 27194-4.07, Rogers Park Main
STAT Project Number: 702465 STAT Sample Nos.: 921174.- 921179
Date Received: August 15, 2001

Dear Ms. Kelley:

Enclosed are the analytical results for the above referenced project. The samples were analyzed as per the enclosed chain of custody.

All analyses were performed in accordance with methods from the USEPA publication Test Methods for Evaluating Solid Wastes. Physical/Chemical Methods, SW-846, 3rd Edition, December, 1996. Specific method references are listed on the analytical report. Where applicable, results are expressed on a dry weight basis as per method protocols.

All analyses were performed within the established holding times, and all quality control criteria, as outlined in the method have been met. QA/QC documentation and raw data will remain on file for future reference.

Thank you for the opportunity to serve you and we look forward to working with you in the future. If you have any questions about the enclosed materials, please call me at 312-733-0551.

Sincerely,



Amanda Scampini
Assistant Project Manager

Approved by:



Craig Chawla
Project Manager

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, IL 60612-3547 312.733.0551 Fax:312.733.2386
e-mail address: STATinfo@STATAAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0

September 24, 2001

Margaret Kelly
Burns & McDonnell
2601 W. 22nd Street
OakBrook, IL 60523-1229
Telephone: (630) 990-0300
Fax: (630) 990-0301

RE: 27194-4.07, Rogers Park Main

STAT Project No: 0109048

Dear Margaret Kelly:

STAT Analysis received 2 samples for the referenced project on 9/21/2001. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except where noted in the Case Narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Amanda Scampini

Assistant Project Manager

STAT Analysis Corporation

Date: September 24, 2001

CLIENT: Burns & McDonnell
Project: 27194-4.07, Rogers Park Main
Lab Order: 0109048

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
0109048-001A	RPP-CS04-04		9/21/2001 1:00:00 PM	9/21/2001
0109048-002A	RPM-CS03-01		9/21/2001 1:00:00 PM	9/21/2001

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, IL 60612-3547

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATanalysis.com



Date: September 24, 2001

CLIENT:	Burns & McDonnell	Client Sample ID:	RPM-CS03-01
Lab Order:	0109048	Tag Number:	
Project:	27194-4.07, Rogers Park Main	Collection Date:	9/21/2001 1:00:00 PM
Lab ID:	0109048-002A	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICPMS	SW6020			Prep Date: 9/21/2001		Analyst: MCL
Lead	38	0.57		mg/Kg-dry	10	9/22/2001
ICPMS METALS, SPLP LEACHED	SW1312/6020			Prep Date: 9/23/2001		Analyst: MCL
Lead	0.011	0.005		mg/L	5	9/23/2001
PERCENT MOISTURE	D2216			Prep Date:		Analyst: BTN
Percent Moisture	14.61	0.01		wt%	1	9/22/2001

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

STAT Analysis Corporation

2201 West Campbell Park Drive, Chicago, Illinois 60612-3547 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248, NVLAP accredited 101202-0



NVLAP®
 N°: 0109048

Page : 1 of 1

CHAIN OF CUSTODY RECORD

Client Name: *Burns & McDonnell*
 Project Number: 27194-4.07
 Project Name: *Riverside Park Main*
 Location/Address: 6059 N. KEDZIE, CHICAGO
 Samplers: *Courtney M. Mattofer*

Client Sample No.	Sample Description	Date Taken	Time Taken	Comp.	Grab	No. of Containers
	RPP-CS04-04	9-20-01	1:00pm	X		1
	RPM-CS03-01	9-20-01	1:00pm	X		2

TYPE OF ANALYSES						
PARTS 1002 TESTS	SPCP TEST	TDTB TEST				
			Cm			Turnaround Time: 1/2 (days)
						Results Needed: 9/24/01 am/pm
					Remarks	Lab No.
					POND MAIN	001
						002

Relinquished by: (Signature)	<i>Courtney M. Mattofer</i>	Date/Time: 9-20-01/2:00pm
Received by: (Signature)	<i>STAT Analysis</i>	Date/Time: 9-20-01
Relinquished by: (Signature)		Date/Time:
Received by: (Signature)	<i>Beth Scholz</i>	Date/Time: 9/21/01
Relinquished by: (Signature)		Date/Time:

Lab Use:	Sample Verification:	Contact Information:
- Container OK:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Phone Number: 630-990-0300
- Samples Leaking:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Fax Number: 630-990-0301
- Refrigerated (Temp: °C):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Attention: Mr. MET KELLEY
- Sample Labels Match Sample ID:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Contact: Courtney Mattofer

CLIENT: Burns & McDonnell

Work Order: 0109048

Project: 27194-4.07, Rogers Park Main

Test No: SW8270(SIM) Matrix:

**QC SUMMARY REPORT
SURROGATE RECOVERIES****Sample ID DCBZ12D4 NO2BZD5 PHEN2F PHEND14**

0109047-001BMS		38.5	42.7	42.1					
0109047-001BMSD		41.5	44.5	46.7					
0109048-001A	24.2	45.3	32.5	46.1					
LCS-092101		65.1	66.1	74.5					
MB-092101		44.7	48.5	59.3					

Acronym	Surrogate	QC Limits
DCBZ12D4	= 1,2-Dichlorobenzene-d4	20-130
NO2BZD5	= Nitrobenzene-d5	23-120
PHEN2F	= 2-Fluorobiphenyl	30-115
PHEND14	= 4-Terphenyl-d14	18-137

* Surrogate recovery outside acceptance limits

CLIENT: Burns & McDonnell
 Work Order: 0109048
 Project: 27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 71

Sample ID: MB-092101	SampType: MBLK	TestCode: PNA_SOIL+	Units: mg/Kg	Prep Date: 9/21/2001	Run ID: SVOC-4_010923C						
Client ID: ZZZZZ	Batch ID: 71	TestNo: SW8270(SIM)		Analysis Date: 9/23/2001	SeqNo: 2662						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	0.002667	0.025									J
Naphthalene	0.002667	0.025									J
2-Methylnaphthalene	0.001333	0.025									J
1-Methylnaphthalene	0.001	0.025									J
Acenaphthylene	0	0.025									J
Acenaphthene	0	0.025									
Dibenzofuran	0	0.025									
Fluorene	0	0.025									
Phenanthrene	0	0.025									
Anthracene	0	0.025									
Carbazole	0.001333	0.025									
Fluoranthene	0	0.025									J
Pyrene	0	0.025									
Benz(a)anthracene	0	0.025									
Chrysene	0	0.025									
Bis(2-ethylhexyl)phthalate	0.011	0.025									
Benzo(b)fluoranthene	0	0.025									J
Benzo(k)fluoranthene	0	0.025									
Benzo(a)pyrene	0	0.025									
Indeno(1,2,3-cd)pyrene	0	0.025									
Dibenz(a,h)anthracene	0	0.025									
Benzo(g,h,i)perylene	0	0.025									
Surr: 2,4,6-Tribromophenol	0.131	0	0.167	0	78.4	19	122	0	0		
Surr: 2-Fluorobiphenyl	0.081	0	0.167	0	48.5	30	115	0	0		
Surr: 2-Fluorophenol	0.081	0	0.167	0	48.5	25	121	0	0		
Surr: 4-Terphenyl-d14	0.099	0	0.167	0	59.3	18	137	0	0		
Surr: Nitrobenzene-d5	0.07467	0	0.167	0	44.7	23	120	0	0		
Surr: Phenol-d5	0.09433	0	0.167	0	56.5	24	113	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Burns & McDonnell
 Work Order: 0109048
 Project: 27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 71

Sample ID: LCS-092101	SampType: LCS	TestCode: PNA_SOIL+	Units: mg/Kg	Prep Date: 9/21/2001			Run ID: SVOC-4_010923C				
Client ID: ZZZZZ	Batch ID: 71	TestNo: SW8270(SIM)		Analysis Date: 9/23/2001			SeqNo: 2663				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	0.1157	0.025	0.167	0.002667	67.7	30	130	0	0		
Naphthalene	0.094	0.025	0.167	0.002667	54.7	30	130	0	0		
2-Methylnaphthalene	0.1073	0.025	0.167	0.001333	63.5	30	130	0	0		
1-Methylnaphthalene	0.1143	0.025	0.167	0.001	67.9	30	130	0	0		
Acenaphthylene	0.111	0.025	0.167	0	66.5	30	130	0	0		
Acenaphthene	0.09733	0.025	0.167	0	58.3	30	130	0	0		
Dibenzofuran	0.1197	0.025	0.167	0	71.7	30	130	0	0		
Fluorene	0.1087	0.025	0.167	0	65.1	30	130	0	0		
Phenanthrene	0.1177	0.025	0.167	0	70.5	30	130	0	0		
Anthracene	0.098	0.025	0.167	0	58.7	30	130	0	0		
Carbazole	0.1543	0.025	0.167	0.001333	91.6	30	130	0	0		
Fluoranthene	0.1063	0.025	0.167	0	63.7	30	130	0	0		
Pyrene	0.1047	0.025	0.167	0	62.7	30	130	0	0		
Benz(a)anthracene	0.1243	0.025	0.167	0	74.5	30	130	0	0		
Chrysene	0.1283	0.025	0.167	0	76.8	30	130	0	0		
Bis(2-ethylhexyl)phthalate	0.1747	0.025	0.167	0.011	98	30	130	0	0		
Benzo(b)fluoranthene	0.1203	0.025	0.167	0	72.1	30	130	0	0		
Benzo(k)fluoranthene	0.086	0.025	0.167	0	51.5	30	130	0	0		
Benzo(a)pyrene	0.1177	0.025	0.167	0	70.5	30	130	0	0		
Indeno(1,2,3-cd)pyrene	0.1223	0.025	0.167	0	73.3	30	130	0	0		
Dibenz(a,h)anthracene	0.1243	0.025	0.167	0	74.5	30	130	0	0		
Benzo(g,h,i)perylene	0.1207	0.025	0.167	0	72.3	30	130	0	0		
Surr: 2,4,6-Tribromophenol	0.1553	0	0.167	0	93	19	122	0	0		
Surr: 2-Fluorobiphenyl	0.1103	0	0.167	0	66.1	30	115	0	0		
Surr: 2-Fluorophenol	0.09967	0	0.167	0	59.7	25	121	0	0		
Surr: 4-Terphenyl-d14	0.1243	0	0.167	0	74.5	18	137	0	0		
Surr: Nitrobenzene-d5	0.1087	0	0.167	0	65.1	23	120	0	0		
Surr: Phenol-d5	0.1173	0	0.167	0	70.3	24	113	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Burns & McDonnell
 Work Order: 0109048
 Project: 27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 71

Sample ID: 0109047-001BMS	SampType: MS	TestCode: PNA_SOIL+		Units: mg/Kg-dry	Prep Date:	9/21/2001	Run ID: SVOC-4_010923C				
Client ID: ZZZZZ	Batch ID: 71	TestNo: SW8270(SIM)			Analysis Date:	9/23/2001	SeqNo: 2675				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	0.1002	0.029	0.1953	0.002729	49.9	30	130	0	0	0	
Naphthalene	0.07562	0.029	0.1953	0.003119	37.1	30	130	0	0	0	
2-Methylnaphthalene	0.09667	0.029	0.1953	0.003119	47.9	30	130	0	0	0	
1-Methylnaphthalene	0.09979	0.029	0.1953	0.001949	50.1	30	130	0	0	0	
Acenaphthylene	0.09005	0.029	0.1953	0	46.1	30	130	0	0	0	
Acenaphthene	0.07913	0.029	0.1953	0	40.5	30	130	0	0	0	
Dibenzofuran	0.1053	0.029	0.1953	0.0007796	53.5	30	130	0	0	0	
Fluorene	0.08888	0.029	0.1953	0	45.5	30	130	0	0	0	
Phenanthrene	0.09434	0.029	0.1953	0	48.3	30	130	0	0	0	
Anthracene	0.08459	0.029	0.1953	0	43.3	30	130	0	0	0	
Carbazole	0.1314	0.029	0.1953	0.001559	66.5	30	130	0	0	0	
Fluoranthene	0.092	0.029	0.1953	0	47.1	30	130	0	0	0	
Pyrene	0.0842	0.029	0.1953	0	43.1	30	130	0	0	0	
Benz(a)anthracene	0.113	0.029	0.1953	0	57.9	30	130	0	0	0	
Chrysene	0.115	0.029	0.1953	0	58.9	30	130	0	0	0	
Bis(2-ethylhexyl)phthalate	0.1727	0.029	0.1953	0.02846	73.9	30	130	0	0	0	
Benzo(b)fluoranthene	0.1072	0.029	0.1953	0	54.9	30	130	0	0	0	
Benzo(k)fluoranthene	0.136	0.029	0.1953	0	69.7	30	130	0	0	0	
Benzo(a)pyrene	0.1216	0.029	0.1953	0	62.3	30	130	0	0	0	
Indeno(1,2,3-cd)pyrene	0.1084	0.029	0.1953	0	55.5	30	130	0	0	0	
Dibenz(a,h)anthracene	0.1084	0.029	0.1953	0	55.5	30	130	0	0	0	
Benzo(g,h,i)perylene	0.1107	0.029	0.1953	0	56.7	30	130	0	0	0	
Surr: 2,4,6-Tribromophenol	0.1337	0	0.1953	0	68.5	19	122	0	0	0	
Surr: 2-Fluorobiphenyl	0.08342	0	0.1953	0	42.7	30	115	0	0	0	
Surr: 2-Fluorophenol	0.09005	0	0.1953	0	46.1	25	121	0	0	0	
Surr: 4-Terphenyl-d14	0.08225	0	0.1953	0	42.1	18	137	0	0	0	
Surr: Nitrobenzene-d5	0.07523	0	0.1953	0	38.5	23	120	0	0	0	
Surr: Phenol-d5	0.1056	0	0.1953	0	54.1	24	113	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Burns & McDonnell
 Work Order: 0109048
 Project: 27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 71

Sample ID: 0109047-001BMSD	SampType: MSD	TestCode: PNA_SOIL+		Units: mg/Kg-dry	Prep Date:	9/21/2001	Run ID: SVOC-4_010923C				
Client ID: ZZZZZ	Batch ID: 71	TestNo: SW8270(SIM)			Analysis Date:	9/23/2001	SeqNo: 2676				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	0.1029	0.029	0.1953	0.002729	51.3	30	130	0.1002	2.69	50	
Naphthalene	0.07757	0.029	0.1953	0.003119	38.1	30	130	0.07562	2.54	50	
2-Methylnaphthalene	0.09784	0.029	0.1953	0.003119	48.5	30	130	0.09667	1.20	50	
1-Methylnaphthalene	0.1041	0.029	0.1953	0.001949	52.3	30	130	0.09979	4.21	50	
Acenaphthylene	0.09512	0.029	0.1953	0	48.7	30	130	0.09005	5.47	50	
Acenaphthene	0.08225	0.029	0.1953	0	42.1	30	130	0.07913	3.86	50	
Dibenzofuran	0.1068	0.029	0.1953	0.0007796	54.3	30	130	0.1053	1.47	50	
Fluorene	0.08849	0.029	0.1953	0	45.3	30	130	0.08888	0.440	50	
Phenanthrene	0.1056	0.029	0.1953	0	54.1	30	130	0.09434	11.3	50	
Anthracene	0.09473	0.029	0.1953	0	48.5	30	130	0.08459	11.3	50	
Carbazole	0.138	0.029	0.1953	0.001559	69.9	30	130	0.1314	4.92	50	
Fluoranthene	0.09784	0.029	0.1953	0	50.1	30	130	0.092	6.16	50	
Pyrene	0.09044	0.029	0.1953	0	46.3	30	130	0.0842	7.14	50	
Benz(a)anthracene	0.1142	0.029	0.1953	0	58.5	30	130	0.113	1.03	50	
Chrysene	0.1158	0.029	0.1953	0	59.3	30	130	0.115	0.676	50	
Bis(2-ethylhexyl)phthalate	0.1704	0.029	0.1953	0.02846	72.7	30	130	0.1727	1.36	50	
Benzo(b)fluoranthene	0.1524	0.029	0.1953	0	78	30	130	0.1072	34.8	50	
Benzo(k)fluoranthene	0.08381	0.029	0.1953	0	42.9	30	130	0.136	47.5	50	
Benzo(a)pyrene	0.1216	0.029	0.1953	0	62.3	30	130	0.1216	0	50	
Indeno(1,2,3-cd)pyrene	0.1103	0.029	0.1953	0	56.5	30	130	0.1084	1.78	50	
Dibenz(a,h)anthracene	0.1099	0.029	0.1953	0	56.3	30	130	0.1084	1.43	50	
Benzo(g,h,i)perylene	0.1123	0.029	0.1953	0	57.5	30	130	0.1107	1.40	50	
Surr: 2,4,6-Tribromophenol	0.1357	0	0.1953	0	69.5	19	122	0	0	0	
Surr: 2-Fluorobiphenyl	0.08693	0	0.1953	0	44.5	30	115	0	0	0	
Surr: 2-Fluorophenol	0.09044	0	0.1953	0	46.3	25	121	0	0	0	
Surr: 4-Terphenyl-d14	0.09122	0	0.1953	0	46.7	18	137	0	0	0	
Surr: Nitrobenzene-d5	0.08108	0	0.1953	0	41.5	23	120	0	0	0	
Surr: Phenol-d5	0.106	0	0.1953	0	54.3	24	113	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Burns & McDonnell
 Work Order: 0109048
 Project: 27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 84

Sample ID: MBS2 9/21	SampType: MBLK	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020		Analysis Date: 9/22/2001	SeqNo: 2428
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	0.0024	0.0010			LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Sample ID: LCSS2 9/21	SampType: LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020		Analysis Date: 9/22/2001	SeqNo: 2429
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	0.5413	0.010	0.5	0.0024	108 80 120 0 0
Sample ID: LCSDS2 9/21	SampType: LCSD	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020		Analysis Date: 9/22/2001	SeqNo: 2430
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	0.6171	0.010	0.5	0.0024	123 80 120 0.5413 13.1 20 S
Sample ID: 0109047-001BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MPL 10/2/01	Analysis Date: 9/22/2001	SeqNo: 2434
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	55.95	0.57	28.65	14.08	138 75 125 0 0 S
Sample ID: 0109047-001BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020		Analysis Date: 9/22/2001	SeqNo: 2441
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	42.64	0.57	28.65	14.08	91.3 75 125 0 0
Sample ID: 0109028-012AMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MPL 10/2/01	Analysis Date: 9/22/2001	SeqNo: 2452
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Burns & McDonnell
 Work Order: 0109048
 Project: 27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 84

Sample ID: 0109028-012AMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MIL 10/26/01	Analysis Date:	9/22/2001	SeqNo: 2452
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	95.55	0.56	28.12	53.64	149	75 125 0 0 S
Sample ID: 0109048-002AMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	9/21/2001	Run ID: ICPMS_010922A
Client ID: RPM-CS03-01	Batch ID: 84	TestNo: SW6020	MIL 10/26/01	Analysis Date:	9/22/2001	SeqNo: 2457
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	50.32	0.56	27.96	32.34	44.5	75 125 0 0 S
Sample ID: 0109028-012AMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MIL 10/26/01	Analysis Date:	9/22/2001	SeqNo: 2461
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	69.79	0.56	28.12	53.64	57.4	75 125 0 0 S
Sample ID: 0109047-001BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MIL 10/26/01	Analysis Date:	9/22/2001	SeqNo: 2435
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	55.86	0.55	27.49	14.08	143	75 125 36.46 26.8 20 SR
Sample ID: 0109047-001BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MIL 10/26/01	Analysis Date:	9/22/2001	SeqNo: 2442
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	42.1	0.55	27.49	14.08	93.2	75 125 36.46 1.28 20
Sample ID: 0109028-012AMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MIL 10/26/01	Analysis Date:	9/22/2001	SeqNo: 2453
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Burns & McDonnell
Work Order: 0109048
Project: 27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 84

Sample ID: 0109028-012AMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MPL 10/20/01	Analysis Date: 9/22/2001	SeqNo: 2453
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	120.1	0.61	30.42	53.64	218
				75	125
				69.79	53.0
				20	SR
Sample ID: 0109048-002AMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: RPM-CS03-01	Batch ID: 84	TestNo: SW6020	MPL 10/20/01	Analysis Date: 9/22/2001	SeqNo: 2458
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	67.42	0.57	28.76	32.34	103
				75	125
				42.97	29.0
				20	R
Sample ID: 0109028-012AMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 9/21/2001	Run ID: ICPMS_010922A
Client ID: ZZZZZ	Batch ID: 84	TestNo: SW6020	MPL 10/20/01	Analysis Date: 9/22/2001	SeqNo: 2462
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	107.4	0.61	30.42	53.64	177
				75	125
				69.79	42.4
				20	SR

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Burns & McDonnell
 Work Order: 0109048
 Project: 27194-4.07, Rogers Park Main

ANALYTICAL QC SUMMARY REPORT

BatchID: 91

Sample ID: 0109047-001BMS	SampType: MS	TestCode: M_ICPMS_S	Units: mg/L	Prep Date:	9/23/2001	Run ID: ICPMS_010923A
Client ID: ZZZZZ	Batch ID: 91	TestNo: SW1312/6020		Analysis Date:	9/23/2001	SeqNo: 2614
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	0.483	0.0050	0.5	0.00577	95.4	75 125 0 0
Sample ID: 0109047-001BMSD	SampType: MSD	TestCode: M_ICPMS_S	Units: mg/L	Prep Date:	9/23/2001	Run ID: ICPMS_010923A
Client ID: ZZZZZ	Batch ID: 91	TestNo: SW1312/6020		Analysis Date:	9/23/2001	SeqNo: 2615
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	0.4709	0.0050	0.5	0.00577	93	75 125 0.483 2.54 20
Sample ID: MBW1 9/23/01	SampType: MBLK	TestCode: M_ICPMS_W	Units: mg/L	Prep Date:	9/23/2001	Run ID: ICPMS_010923A
Client ID: ZZZZZ	Batch ID: 91	TestNo: SW6020		Analysis Date:	9/23/2001	SeqNo: 2593
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	0.00229	0.0010				
Sample ID: LCSW1 9/23/01	SampType: LCS	TestCode: M_ICPMS_W	Units: mg/L	Prep Date:	9/23/2001	Run ID: ICPMS_010923A
Client ID: ZZZZZ	Batch ID: 91	TestNo: SW6020		Analysis Date:	9/23/2001	SeqNo: 2594
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	0.4932	0.0010	0.5	0.00229	98.2	80 120 0 0 B
Sample ID: LCSDW1 9/23/01	SampType: LCSD	TestCode: M_ICPMS_W	Units: mg/L	Prep Date:	9/23/2001	Run ID: ICPMS_010923A
Client ID: ZZZZZ	Batch ID: 91	TestNo: SW6020		Analysis Date:	9/23/2001	SeqNo: 2595
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	0.496	0.0010	0.5	0.00229	98.7	80 120 0.4932 0.566 20 B

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**AIR SAMPLE DATA EVALUATION MEMORANDA
ROGERS PARK MAIN MGP SITE**

BURNS & McDONNELL

Client: Peoples Gas
Site: Rogers Park Main and Pond MGP Site
Project No.: 27194
File No.: I.7
Title: Data Validation of Air Samples
Collected on July 20, 2001 through September 26, 2001

Prepared By: C. Marhoefer
Date: October 10, 2001
Checked By: K. Nichols
Date: October 15, 2001

PURPOSE

The purpose of this document is to present the evaluation and validation of air sample analytical results.

VALIDATION CRITERIA

The evaluation and validation consisted of the following:

- Checked analytical holding times.
- Checked surrogate recoveries.
- Reviewed laboratory blank analyses.
- Reviewed laboratory control standards (LCS)
- Reviewed laboratory annotations.

SAMPLING EFFORT

Ten-hour, time-average air samples were collected using Summa® canisters along the perimeter of the Rogers Park Pond and Main Site in Chicago, Illinois between July 20 and September 26, 2001. Four stations were set up at the north, south, east and west sides of the remediation area respectively. A total of one hundred and thirty-eight (138) air samples were collected and analyzed. Two of the aforementioned samples (RPM-E-ERI-SUM and RPM-N-ERI-SUM) were duplicates analyzed by Environmental Research Institute.

LABORATORY

Samples were analyzed by Air Toxics Ltd. of Folsom, California and Environmental Research Institute (ERI) of Storrs, Connecticut.

SAMPLE INFORMATION

Table 1 presents the sample locations, sample designations, analyses requested and date sampled. Table 2 presents the method used to analyze all of the air samples.

HOLDING TIME EVALUATION

Table 3 presents the analytical holding times that were used to evaluate and validate the extractions and analyses performed. In the case of sample RPM-E-ERI-SUM (analyzed by ERI), the first round of BTEX results were suspected to be contaminated by an outside source of toluene during analysis; therefore they were not used. The reanalysis, however, was performed outside of the BTEX holding

time. Consequently, all results for sample RPM-E-ERI-SUM have been qualified estimated "J". All other sample extractions and analyses were performed within the holding time criteria; therefore, no other qualification is necessary.

SURROGATE RECOVERY EVALUATION

Surrogate recoveries were within the acceptable laboratory limits; therefore, no qualification is necessary.

LABORATORY BLANK ANALYSIS EVALUATION

All laboratory blanks were non-detect; therefore, no qualification is necessary.

LABORATORY CONTROL STANDARDS EVALUATION

Laboratory control standards (LCS) were prepared and run for this sampling event. The LCS recovery for o-xylene exceeded the quality control limits for samples RPM-N-SUM-08-08-01, RPM-E-SUM-08-08-01, and RPM-S-SUM-08-27-01. Therefore, o-xylene results for these samples are qualified estimated "J".

LABORATORY ANNOTATION REVIEW

A review of the Air Toxics Ltd. and ERI case narratives indicate that the overall quality of the analytical results is acceptable.

CONCLUSIONS

Laboratory data have been reviewed and are acceptable for use. The overall quality of the analytical results was found to be good.

REFERENCES

The following reference documents were used:

- (1) United States Environmental Protection Agency (USEPA), 1994. *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, February.
- (2) U.S. EPA, 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-14, 2nd Ed.*, January.

Table 1
List of Sample Stations, Analyses, and Dates Sampled

Station Location¹	Sample Designation	Analyses	Data Sampled
North	RPM-N-SUM-DATE	Benzene, toluene, Ethylbenzene, M,P-Xylenes, O-Xylene	July 20, 2001 through September 26, 2001
South	RPM-S-SUM-DATE	Benzene, toluene, Ethylbenzene, M,P-Xylenes, O-Xylene	July 20, 2001 through September 26, 2001
East	RPM-E-SUM-DATE	Benzene, toluene, Ethylbenzene, M,P-Xylenes, O-Xylene	July 20, 2001 through September 26, 2001
West	RPM-W-SUM-DATE	Benzene, toluene, Ethylbenzene, M,P-Xylenes, O-Xylene	July 20, 2001 through September 26, 2001

¹ Every third day all four locations were sampled for the two days in between, sample locations were determined by the wind direction.

Table 2
Analytical Methods

Parameter	Analytical Method¹
Benzene, toluene, ethylbenzene, total xylenes (BTEX)	TO-14A

¹ USEPA 2001

Table 3
Soil Analytical Holding Times⁽¹⁾

Analyses	Holding Time From Sample Collection
Summa® Canisters	30 days
BTEX	14 days

Note: (1) USEPA 1998 and NET 1997.

**AIR ANALYTICAL RESULTS DATA SHEETS
ROGERS PARK MAIN MGP SITE**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0107450

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	RPM-27194
FAX:	630-990-0301	PROJECT #	27194 Rogers Park Main
DATE RECEIVED:	7/23/01		
DATE COMPLETED:	7/30/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	RPM-E-SUM-07-20-01	TO-14	12.5 "Hg
02A	RPM-S-SUM-07-20-01	TO-14	12.5 "Hg
03A	RPM-W-SUM-07-20-01	TO-14	12.5 "Hg
04A	Lab Blank	TO-14	NA

CERTIFIED BY:

DATE: 07/30/01

Laboratory Director

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0107450

Three 6 Liter Summa Canister samples were received on July 23, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria.	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-07-20-01

ID#: 0107450-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I073005	Date of Collection:	7/20/01
Dil. Factor:	2.30	Date of Analysis:	7/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	2.7	10
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	1.3	5.6
o-Xylene	1.2	5.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	81	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-07-20-01

ID#: 0107450-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I073006	Date of Collection:	7/20/01
Dil. Factor:	2.30	Date of Analysis:	7/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	9.1	35
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	1.8	7.8
o-Xylene	1.2	5.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	77	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-07-20-01

ID#: 0107450-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073007	Date of Collection:	7/20/01
Dil. Factor:	2.30	Date of Analysis:	7/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	5.2	20
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	2.3	10
o-Xylene	1.2	5.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	78	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0107450-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073004	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	79	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
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Page 1 of 1

Contact Person <u>MARGARET KELLY</u>	Project info: P.O. # <u>RPM-27194</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal					
Company <u>Burns & McDonnell</u>	Project # <u>27194</u>	<input type="checkbox"/> Rush _____					
Address <u>2601 W. 22nd ST.</u>	Project Name <u>Rogers Park</u>	Specify _____					
City <u>Dalebrook</u> State <u>IL</u> Zip <u>60523</u>							
Phone <u>(708) 990-0300</u>							
FAX <u>(708) 990-0301</u>							
Collected By: Signature <u>Letary L. Kelly</u>							
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Canister Pressure / Vacuum Final	Receipt	
O1A	RPM-E-Sum-07-20-01	7-20-01	BTEX	28.5	11.0	12.5-44	
O12A	RPM-S-Sum-07-20-01	7-20-01	BTEX	28.5	11.0	12.3-44	
O13A	RPM-N-Sum-07-20-01	7-20-01	BTEX/BOD/TOC Analyses	27.5	0		
O14A	RPM-W-Sum-07-20-01	7-20-01	BTEX	27.0	11.0	12.5-44	
Relinquished By: (Signature) Date/Time: <u>Letary L. Kelly</u> 7-20-01		Received By: (Signature) Date/Time: <u>Kelly Bluthner</u> 7/23/01 0920		Notes:			
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Lab Use Only	Shipper Name <u>FedEx</u>	Air Bill # <u>68103314630713</u>	Opened By: <u>HCB</u>	Temp. (C) <u>AMBIENT</u>	Condition <u>good</u>	Custody Seals Intact? <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> None	Work Order # <u>0107450</u>

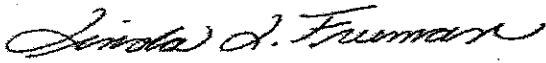
WORK ORDER #: 0107502

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	RPM-27194
FAX:	630-990-0301	PROJECT #	27194 Rogers Park Main
DATE RECEIVED:	7/25/01		
DATE COMPLETED:	8/1/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC./PRES.</u>
01A	RPM-E-SUM-07-23-01	TO-14	11.0 "Hg
02A	RPM-S-SUM-07-23-01	TO-14	10.0 "Hg
03A	RPM-N-SUM-07-23-01	TO-14	7.0 "Hg
04A	RPM-W-SUM-07-23-01	TO-14	10.5 "Hg
05A	Lab Blank	TO-14	NA
05B	Lab Blank	TO-14	NA

CERTIFIED BY:



DATE: 08/01/01

Laboratory Director

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0107502

Four 6 Liter Summa Canister samples were received on July 25, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-07-23-01

ID#: 0107502-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c072922	Date of Collection:	7/23/01
Dil. Factor:	2.12	Date of Analysis:	7/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	1.5	5.8
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	1.1	4.7
o-Xylene	1.1	4.7	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-07-23-01

ID#: 0107502-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c072923	Date of Collection:	7/23/01
Dil. Factor:	2.01	Date of Analysis:	7/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.5	5.0
Toluene	1.0	3.8	3.8	15
Ethyl Benzene	1.0	4.4	1.2	5.6
m,p-Xylene	1.0	4.4	4.1	18
o-Xylene	1.0	4.4	1.9	8.5

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-07-23-01

ID#: 0107502-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073008	Date of Collection:	7/23/01
Dil. Factor:	1.75	Date of Analysis:	7/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.88	2.8	Not Detected	Not Detected
Toluene	0.88	3.4	1.5	5.8
Ethyl Benzene	0.88	3.9	Not Detected	Not Detected
m,p-Xylene	0.88	3.9	1.4	6.4
o-Xylene	0.88	3.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	77	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-07-23-01

ID#: 0107502-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	10736009	Date of Collection:	7/23/01
Div Factor:	2.06	Date of Analysis:	7/30/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)
Benzene	1.0	3.3	2.6
Toluene	1.0	3.9	4.5
Ethyl Benzene	1.0	4.5	Not Detected
m,p-Xylene	1.0	4.5	2.3
o-Xylene	1.0	4.5	1.3

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	76	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0107502-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c072904	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	7/29/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0107502-05B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073004	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	7/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	79	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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(916) 985-1000 FAX: (916) 985-1020

Page 1 of 1

Contact Person	Margaret Keeley			Project info:				
Company	Burns & McDonnell			P.O. #	RPM-27194			
Address	2601 W. 22 nd St.	City	Oak Brook	State	IL	Zip	60523	
Phone	(1630) 990-0300	FAX	(1630) 990-0301	Project #	27194			
Collected By: Signature	<i>Margaret Keeley</i>			Project Name	Rogers Park Main			
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested			Canister Pressure / Vacuum		
01A	RPM-E-Sum-07-23-01	7-23-01	BTEX			29	10.5	11.0 "Hg
02A	RPM-S-Sum-07-23-01	7-23-01	BTEX			29	9.5	10.0 "Hg
02D	RPM-N-Sum-07-23-01	7-23-01	BTEX			27.5	9	10.0 "Hg
04A	RPM-W-Sum-07-23-01	7-23-01	BTEX			27.5	9.5	10.5 "Hg
Relinquished By: (Signature) Date/Time			Received By: (Signature) Date/Time			Notes:		
<i>Margaret Keeley</i> 7-23-01/4:00pm								
Received By: (Signature) Date/Time			Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time			Received By: (Signature) Date/Time					
Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp (°C)	Condition	Custody Seals Intact?	Work Order #	
	R.P.D.	826334830702	TAS.	Ambient	Good	Yes No	None 0107502	

WORK ORDER #: 0107538

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	RPM-27194
FAX:	630-990-0301	PROJECT #	27194 Rogers Park Main
DATE RECEIVED:	7/26/01		
DATE COMPLETED:	8/2/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-07-24-01	TO-14	3.5 "Hg
02A	RPM-S-SUM-07-24-01	TO-14	8.5 "Hg
03A	RPM-W-SUM-07-24-01	TO-14	8.5 "Hg
03AA	RPM-W-SUM-07-24-01 Duplicate	TO-14	8.5 "Hg
04A	RPM-E-SUM-07-24-01	TO-14	9.5 "Hg
05A	Method Spike	TO-14	NA
06A	Lab Blank	TO-14	NA

CERTIFIED BY: Sandra J. Freeman

DATE: 08/02/01

Laboratory Director

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA -AI30763

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0107538

Four 6 Liter Summa Canister samples were received on July 26, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The RPD of duplicate samples RPM-W-SUM-07-24-01 and RPM-W-SUM-07-24-01 Duplicate exceeded acceptance limits for some target species due target compound concentrations present at less than 5X the reporting limit. There is no effect on data quality.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-07-24-01

ID#: 0107538-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I073112	Date of Collection:	7/24/01
Dil. Factor:	1.87	Date of Analysis:	7/31/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	1.1	4.1
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	79	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-07-24-01

ID#: 0107538-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073113	Date of Collection:	7/24/01
Dil. Factor:	1.87	Date of Analysis:	7/31/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	1.0	4.0
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	1.0	4.5
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	82	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-07-24-01

ID#: 0107538-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I073115	Date of Collection:	7/24/01
Dil. Factor:	1.87	Date of Analysis:	7/31/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	1.3	5.2
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	1.0	4.5
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	83	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-07-24-01 Duplicate

ID#: 0107538-03AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073116	Date of Collection:	7/24/01
Dil. Factor:	1.87	Date of Analysis:	7/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	1.2	4.6
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	82	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-07-24-01

ID#: 0107538-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073114	Date of Collection:	7/24/01
Dil. Factor:	1.96	Date of Analysis:	7/31/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.7	6.6
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	1.5	6.8
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	80	70-130

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 0107538-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I073103	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/31/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	96
Toluene	0.50	1.9	95
Ethyl Benzene	0.50	2.2	93
m,p-Xylene	0.50	2.2	100
o-Xylene	0.50	2.2	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0107538-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I073108	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/31/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	82	70-130
4-Bromofluorobenzene	74	70-130



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CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Contact Person MARGARET Kelley
Company Burns & McDonnell
Address 21001 W. 22nd St. City OAK Brook State IL Zip 60521
Phone (630) 990-0300 FAX (630) 990-0301

Collected By: Signature

Project info:
P.O. # RPM-27194
Project # 27194
Project Name ROGERS' BREEZEWAY

Turn Around Time:

Normal

Rush ..

Specify

21.27.01

Relinquished By: (Signature) / Date/Time

Received By: (Signature) Date/Time

Belinguished By: (Signature) Date/Time

Received By: (Signature) Date/Time:

Relinquished By: (Signature) Date/Time:

Received By: (Signature) Date/Time:

Notes: Preservation Type: NR
Material: Ambient Air

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed EX	806334830648	KCB	A-AMBIENT	good	Yes No None	0107538

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0107560

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	RPM-27194
FAX:	630-990-0301	PROJECT #	27194 Rogers Park Main
DATE RECEIVED:	7/27/01		
DATE COMPLETED:	8/3/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-W-Sum-07-25-01	TO-14	8.0 "Hg
02A	Lab Blank	TO-14	NA

CERTIFIED BY: Linda D. Truman

DATE: 08/03/01

Laboratory Director

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA -AI30763

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0107560

One 6 Liter Summa Canister sample was received on July 27, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-Sum-07-25-01

ID#: 0107560-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073118	Date of Collection:	7/25/01
Dil. Factor:	1.83	Date of Analysis:	7/31/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	80	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0107560-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1073108	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/31/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	82	70-130
4-Bromofluorobenzene	74	70-130

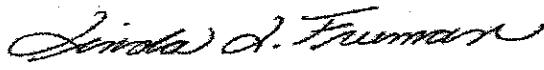
WORK ORDER #: 0107594

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	RPM-27194-4.07
FAX:	630-990-0301	PROJECT #	27194 Rogers Park Main
DATE RECEIVED:	7/28/01		
DATE COMPLETED:	8/2/01		

FRACTION #	NAME	TEST	RECEIPT VAC/FRES.
01A	RPM-N-SUM-07-26-01	TO-14	0.0 "Hg
02A	RPM-W-SUM-07-26-01	TO-14	0 "Hg
03A	RPM-N-SUM-07-27-01	TO-14	9.5 "Hg
04A	RPM-S-SUM-07-27-01	TO-14	9.5 "Hg
05A	RPM-E-SUM-07-27-01	TO-14	9.0 "Hg
06A	RPM-W-SUM-07-27-01	TO-14	10.5 "Hg
07A	Lab Blank	TO-14	NA

CERTIFIED BY:



DATE: 08/03/01

Laboratory Director

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA -AI30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0107594

Six 6 Liter Summa Canister samples were received on July 28, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-07-26-01

ID#: 0107594-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1080113	Date of Collection:	7/26/01	
Dil. Factor:	1.83	Date of Analysis:	8/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	79	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-07-26-01

ID#: 0107594-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1080115	Date of Collection:	7/26/01	
Dil. Factor:	1.83	Date of Analysis:	8/1/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	77	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-07-27-01

ID#: 0107594-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I080116	Date of Collection:	7/27/01
Dil. Factor:	1.96	Date of Analysis:	8/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	Not Detected	Not Detected
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	77	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-07-27-01

ID#: 0107594-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I080117	Date of Collection:	7/27/01
Dil. Factor:	1.96	Date of Analysis:	8/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	Not Detected	Not Detected
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	74	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-07-27-01

ID#: 0107594-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1080118	Date of Collection:	7/27/01
Dil. Factor:	1.91	Date of Analysis:	8/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	9.6	31
Toluene	0.96	3.6	1.7	6.4
Ethyl Benzene	0.96	4.2	2.1	9.4
m,p-Xylene	0.96	4.2	2.9	13
o-Xylene	0.96	4.2	1.4	6.2

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	78	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-07-27-01

ID#: 0107594-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I080119	Date of Collection:	7/27/01
Dil. Factor:	2.06	Date of Analysis:	8/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.9	Not Detected	Not Detected
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	Not Detected	Not Detected
o-Xylene	1.0	4.5	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	74	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0107594-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1080105	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	8/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	74	70-130



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Page 1 of 1

Contact Person MARGARET KELLEY
Company BURNS & MCDONNELL
Address 2101 W. 22ND ST. City DALLAS State TX Zip 75223
Phone (1800) 990-0300 FAX (1800) 990-0301

Collected By: Signature Lindsey J. Kelley

Project info:

P.O. # RPM-27194

Project # 27194

Project Name Regulators

Franklin

Turn Around Time:

Normal

Rush

Specify

7-29-01

Lab ID

Field Sample I.D.

Date & Time

Analyses Requested

Canister Pressure / Vacuum
Initial Final Receipt

10 RPM-N-Sum-07-26-01	7-26-01/9:57AM	BTEX	28	7.5	8.0 Hg
10 RPM-S-Sum-07-26-01	7-26-01/9:57AM	BTEX Do Not Analyze	29.5	7.5	8.0 Hg
10 RPM-W-Sum-07-26-01	7-26-01/9:57AM	BTEX	27.5	7.5	8.0 Hg
10 RPM-E-Sum-07-26-01	7-26-01/9:57AM	BTEX Do Not Analyze	29.5	8.5	8.0 Hg

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes: PRESERVATION TYPE: NR
MATRIX: AMBIENT AIR

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Lab Use Only

Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
<u>Fred Wex</u>	<u>82673483065</u>	<u>60</u>	<u>-</u>	<u>good</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	<u>0107594</u>



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Page 1 of 1

Contact Person Margaret Kelley
Company Burns & McDonnell
Address 2601 W 22nd St City Oak Brook State IL Zip
Phone 630-990-0300 FAX 630-990-0301

Collected By: Signature Kimberly A. Nees

Project info:

P.O. # Bum & McDonnell

Project # 27194-407

Project Name Rogers Park
Main

Turn Around Time:

Normal

□ Bush

Specify

Specify

8k 1-29-01

Relinquished By: (Signature) Date/Time

FOLIO 17v

*Received By: (Signature) Date/Time:

Received By: (Signature) Date: Time:

Notes

BELONGING TO: (Signature) Date (T) _____

—Liam O'Brien

Received By: (Signature) Date/Time:

Relinquished By: (Signature) Date/Time

Received By (Signature) Date/Tim

Received By: (Signature) Date/Time

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	826 3341 830665	ES	-	good	Yes No <input checked="" type="checkbox"/> None	0107594



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0108017

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/1/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/8/01		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	RPM-S-SUM-07-30-01	TO-14	9.5 "Hg
02A	RPM-E-SUM-07-30-01	TO-14	10.0 "Hg
02AA	RPM-E-SUM-07-30-01 Duplicate	TO-14	10.0 "Hg
03A	Method Spike	TO-14	NA
04A	Lab Blank	TO-14	NA
04B	Lab Blank	TO-14	NA

CERTIFIED BY:

DATE: 08/08/01

Laboratory Director

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0108017

Two 6 Liter Summa Canister samples were received on August 01, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-07-30-01

ID#: 0108017-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c080228	Date of Collection:	7/30/01
Dil. Factor:	1.96	Date of Analysis:	8/3/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	1.1	3.6
Toluene	0.98	3.8	Not Detected	Not Detected
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-07-30-01

ID#: 0108017-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080620	Date of Collection:	7/30/01	
Dil. Factor:	2.01	Date of Analysis:	8/6/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.3	4.3
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	87	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-07-30-01 Duplicate

ID#: 0108017-02AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080621	Date of Collection:	7/30/01
Dil Factor:	2.01	Date of Analysis:	8/6/01

Compound	Rpt. Limit. (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.2	3.8
Toluene	1.0	3.8	1.0	3.9
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 0108017-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	080602	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/6/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	104
Toluene	0.50	1.9	104
Ethyl Benzene	0.50	2.2	108
m,p-Xylene	0.50	2.2	110
o-Xylene	0.50	2.2	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108017-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c080207	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/2/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108017-04B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080607	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/6/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	88	70-130



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CHAIN-OF-CUSTODY RECORD

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(916) 355-1000 FAX: (916) 355-1000

Page 1 of 1

Contact Person Company Address Phone	Margaret Koenig Burrows & McDonald 2601 W. 22nd St. 100-Brake (630-990-0300)	Project Info: P.O. # Burrows & McDonald Project # 27194-4.07 Project Name Brake Attention	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify			
Collected By: Signature	Linda J. Kelly					
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
	RPM-N-Sum-07-30-01	7-30-01/9hrs	BTEX Do Not Autotype	28	8.5	
	RPM-S-Sum-07-30-01	7-30-01/9hrs	BTEX	29.5	8.5	
	RPM-E-Sum-07-30-01	7-30-01/9hrs	BTEX	29.5	9.5	
	RPM-W-Sum-07-30-01	7-30-01/9hrs	BTEX Do Not Autotype	27.5	8	
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time		Notes: PRESERVATION TYPE: N/A MATRIX: ATM BURST AIR			
Linda J. Kelly / 7-30-01 4:00pm	Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time					
Shipper Name Lab Use Only	Air Bill #	Opened By:	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
FedEx	926334830168	By	-	good	Yes No <input checked="" type="checkbox"/> None	0108017



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0108045

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/2/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/9/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	RPM-N-SUM-07-31-01	TO-14	9.5 "Hg
02A	RPM-E-SUM-07-31-01	TO-14	10.5 "Hg
03A	Lab Blank	TO-14	NA

CERTIFIED BY:

DATE: 08/09/01

Laboratory Director

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0108045

Two 6 Liter Summa Canister samples were received on August 02, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-07-31-01

ID#: 0108045-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080628	Date of Collection:	7/31/01
Dil. Factor:	1.96	Date of Analysis:	8/7/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	2.2	7.2
Toluene	0.98	3.8	1.2	4.6
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	80	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-07-31-01

ID#: 0108045-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080529	Date of Collection:	7/31/01
Dil. Factor:	2.06	Date of Analysis:	8/7/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	3.6	12
Toluene	1.0	3.9	1.2	4.4
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	1.3	5.8
o-Xylene	1.0	4.5	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	85	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108045-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080607	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/6/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	88	70-130



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CHAIN-OF-CUSTODY RECORD

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Page 1 of

Contact Person MARGARET KELLY
Company Baens & McDonald
Address 2601 W. 23rd St. City Dakota State IL Zip 60525
Phone 1-708-990-0300 FAX 1-708-990-0301

Project info:
P.O. # Brown & MacDanmire
Project # 27194-4.07
Project Name Kosher Park Altair

Turn Around Time:

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Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes

Shipper Name

Air Bill #

Opened By

Temp. (°C)

Condition

Custody Seals Intact?

Work Order #

Lab
Use
Only

FedEx 826324830146 65 - 501 Yes No None 0108045

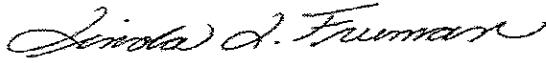
WORK ORDER #: 0108078

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/3/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/10/01		

FRACTION #	NAME	TEST	RECEIPT
			VAC/PRES.
01A	RPM-N-SUM-08-01-01	TO-14	9.0 "Hg
02A	RPM-S-SUM-08-01-01	TO-14	8.5 "Hg
03A	RPM-E-SUM-08-01-01	TO-14	9.0 "Hg
04A	RPM-W-SUM-08-01-01	TO-14	9.0 "Hg
05A	Lab Blank	TO-14	NA

CERTIFIED BY:



DATE: 08/10/01

Laboratory Director

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0108078

Four 6 Liter Summa Canister samples were received on August 03, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-01-01

ID#: 0108078-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080624	Date of Collection:	8/1/01
Dil. Factor:	1.91	Date of Analysis:	8/7/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	0.96	3.7
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	84	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-01-01

ID#: 0108078-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080625	Date of Collection:	8/1/01
Dil. Factor:	1.87	Date of Analysis:	8/7/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	1.2	3.9
Toluene	0.94	3.6	1.0	3.9
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	1.0	4.5
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-01-01

ID#: 0108078-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080626	Date of Collection:	8/1/01
Dil. Factor:	1.91	Date of Analysis:	8/7/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	2.7	8.7
Toluene	0.96	3.6	1.1	4.3
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	0.99	4.4
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	83	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-01-01

ID#: 0108078-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080627	Date of Collection:	8/1/01
Dil. Factor:	1.91	Date of Analysis:	8/7/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	1.6	6.1
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	1.0	4.5
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	85	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108078-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080607	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/6/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	88	70-130

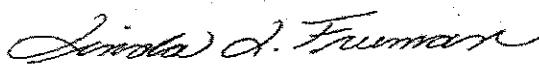
WORK ORDER #: 0108095

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/4/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/13/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
01A	RPM-N-SUM-08-02-01	TO-14	10.0 "Hg
02A	RPM-S-SUM-08-02-01	TO-14	9.0 "Hg
03A	RPM-E-SUM-08-02-01	TO-14	11.5 "Hg
04A	RPM-W-SUM-08-02-01	TO-14	12.0 "Hg
05A	RPM-S-SUM-08-03-01	TO-14	10.0 "Hg
06A	RPM-W-SUM-08-03-01	TO-14	10.0 "Hg
06AA	RPM-W-SUM-08-03-01 Duplicate	TO-14	10.0 "Hg
07A	Method Spike	TO-14	NA
08A	Lab Blank	TO-14	NA
08B	Lab Blank	TO-14	NA

CERTIFIED BY:



Laboratory Director

DATE: 08/13/01

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0108095

Six 6 Liter Summa Canister samples were received on August 04, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-02-01

ID#: 0108095-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080828	Date of Collection:	8/2/01
Dil. Factor:	2.01	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	3.3	11
Toluene	1.0	3.8	3.2	12
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	2.5	11
o-Xylene	1.0	4.4	1.0	4.5

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	115	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-02-01

ID#: 0108095-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	080829	Date of Collection:	8/2/01
Dil. Factor:	1.91	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	7.9	26
Toluene	0.96	3.6	18	69
Ethyl Benzene	0.96	4.2	3.8	17
m,p-Xylene	0.96	4.2	21	95
o-Xylene	0.96	4.2	5.9	26

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	113	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-02-01

ID#: 0108095-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080919	Date of Collection:	8/2/01
Dil. Factor:	2.17	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	15	49
Toluene	1.1	4.2	6.6	25
Ethyl Benzene	1.1	4.8	3.9	17
m,p-Xylene	1.1	4.8	5.7	25
o-Xylene	1.1	4.8	2.4	11

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	111	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-02-01

ID#: 0108095-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080920	Date of Collection:	8/2/01
Dil. Factor:	2.23	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.6	10	33
Toluene	1.1	4.3	8.2	32
Ethyl Benzene	1.1	4.9	2.6	11
m,p-Xylene	1.1	4.9	11	47
o-Xylene	1.1	4.9	3.0	13

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	110	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-03-01

ID#: 0108095-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080921	Date of Collection:	8/3/01
Dil Factor:	2.01	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	2.1	6.8
Toluene	1.0	3.8	1.2	4.6
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.3	5.9
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-03-01

ID#: 0108095-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080922	Date of Collection:	8/3/01
Dil. Factor:	2.01	Date of Analysis:	8/10/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.6	5.0
Toluene	1.0	3.8	1.9	7.5
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.2	5.4
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-03-01 Duplicate

ID#: 0108095-06AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080923	Date of Collection:	8/3/01	
Dil. Factor:	2.01	Date of Analysis:	8/10/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.5	4.9
Toluene	1.0	3.8	1.8	6.8
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.2	5.2
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 0108095-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080902	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	93
Toluene	0.50	1.9	94
Ethyl Benzene	0.50	2.2	104
m,p-Xylene	0.50	2.2	114
o-Xylene	0.50	2.2	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	114	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108095-08A

EPA METHOD TO-14. GC/MS FULL SCAN

File Name:	r080810	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/8/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108095-08B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r080907	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation N.D.

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Page 1 of 1

Contact Person MARGARET KELLEY
Company Burns & McDonnell
Address 2601 W. 22ND ST. City Oak Brook State IL Zip 60523
Phone 630-990-0300 FAX 630-990-0301

Collected By: Signature Margaret Kelley

Project info:

P.O. # Burns & McDonnell
Project # 27194-4.07
Project Name Roseland Park
IL

Turn Around Time:

- Normal
 Rush

Specify

7/8-6-01

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Canister Pressure / Vacuum Final	Receipt
-01A	2PM-N-Sum-08-02-01	8-2-01/ 8:54 hrs	BTEx	28	9	10.1" Hg
-02A	2PM-S-Sum-08-02-01	8-2-01/ 8:55 hrs	BTEx	29	8	9.0" Hg
-03A	2PM-E-Sum-08-02-01	8-2-01/ 8:56 hrs	BTEx	29	11	11.8" Hg
-04A	2PM-W-Sum-08-02-01	8-2-01/ 8:57 hrs	BTEx	28	11	12.0" Hg

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes:

PRESERVATION TYPE: N.R.
MATRIX: AMBIENT AIR

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>FedEx</u>	<u>830329187335</u>	<u>ES</u>	<u>-</u>	<u>SOLO</u>	<u>Yes</u> <u>No</u> <u>None</u>	<u>0108095</u>



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Page 1 of 1

Contact Person MARGARET KELLEY
Company Sheri A McDowell
Address 2601 W. 22nd St. City OAK PARK State IL Zip 60521
Phone 630-990-0300 FAX 630-990-0301

Collected By: Signature

Project info:

P.O. # Burns & McDonnell

Project # 27194-4.01

Project Name Pogers'
Park Inn

Turn Around Time:

Normal

Rush -

Specify

28.8-6-01

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes: PRESERVATION TYPE: NR
MATRIX: AMBIENT AIR

Being relinquished By: (Signature): Date/Time:

Received By: (Signature) Date/Time:

Belinquished By: (Signature) Date/Time:

Received By: _____ Date/Time: _____

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #	
Lab Use Only	ReD (6x)	830 329887746	En	-	Seal	Yes No <input checked="" type="radio"/> None	0108095

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

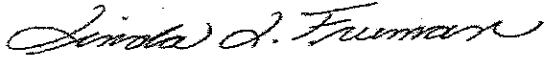
WORK ORDER #: 0108143

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/8/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/15/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
01A	RPM-N-SUM-08-06-01	TO-14	9.5 "Hg
02A	RPM-S-SUM-08-06-01	TO-14	9.5 "Hg
03A	RPM-E-SUM-08-06-01	TO-14	10.5 "Hg
04A	RPM-W-SUM-08-06-01	TO-14	10.0 "Hg
05A	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 08/15/01

Laboratory Director

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0108143

Four 6 Liter Summa Canister samples were received on August 08, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-06-01

ID#: 0108143-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I080918	Date of Collection:	8/6/01
Dil Factor:	1.96	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	8.5	27
Toluene	0.98	3.8	4.8	18
Ethyl Benzene	0.98	4.3	1.5	6.7
m,p-Xylene	0.98	4.3	3.2	14
o-Xylene	0.98	4.3	1.4	6.4

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-06-01

ID#: 0108143-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I080919	Date of Collection:	8/6/01
Dil. Factor:	1.96	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	1.2	3.8
Toluene	0.98	3.8	2.5	9.8
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	1.6	7.2
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-06-01

ID#: 0108143-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1080920	Date of Collection:	8/6/01
Dil. Factor:	2.06	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	17	54
Toluene	1.0	3.9	6.7	26
Ethyl Benzene	1.0	4.5	3.0	13
m,p-Xylene	1.0	4.5	5.4	24
o-Xylene	1.0	4.5	2.7	12

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-06-01

ID#: 0108143-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1080921	Date of Collection:	8/6/01
Oil Factor:	2.01	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.3	4.3
Toluene	1.0	3.8	2.1	8.2
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.2	5.4
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108143-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1080909	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108143-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I080904	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	99
Toluene	0.50	1.9	98
Ethyl Benzene	0.50	2.2	99
m,p-Xylene	0.50	2.2	101
o-Xylene	0.50	2.2	116

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130



CHAIN-OF-CUSTODY RECORD

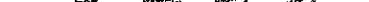
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Page 1 of 1

Contact Person MARGARET KELLEY
Company BURNS & MCDONNELL
Address 2601 W. 22nd ST. City OAK BROOK State IL zip 60521
Phone (630-990-0300 FAX 630-990-0301

Collected By: Signature 

Project info:
P.O. # Burns & McDowell
Project # 27194-407
Project Name Rogers Park
MAN

Turn Around Time

 Norman

Rush

Specify

28 8-8-01

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time:

Belinquished By (Signature) Date/Time

Received By/(Signature) Date/Time

Belinquished By: (Signature) Date/Tim

Received By (Signature) Date/Tim

Notes

Notes:
PRESERVATION TYPE : NR
MATRIX : AMBIENT AIR

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
Fed ex	83032 9087324	KCB	AMBIENT	good	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="radio"/> None
						0108113

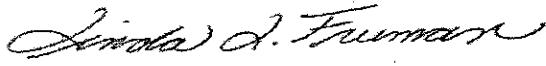
WORK ORDER #: 0108170

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/9/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/16/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-08-07-01	TO-14	9.5 "Hg
02A	RPM-S-SUM-08-07-01	TO-14	9.5 "Hg
03A	RPM-E-SUM-08-07-01	TO-14	10.5 "Hg
03AA	RPM-E-SUM-08-07-01 Duplicate	TO-14	10.5 "Hg
04A	RPM-W-SUM-08-07-01	TO-14	10.0 "Hg
05A	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA

CERTIFIED BY: _____



DATE: 08/16/01

Laboratory Director

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0108170

Four 6 Liter Summa Canister samples were received on August 09, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-07-01

ID#: 0108170-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r081025	Date of Collection:	8/7/01
Dil. Factor:	1.96	Date of Analysis:	8/10/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	3.4	11
Toluene	0.98	3.8	2.4	9.1
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	1.9	8.4
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-07-01

ID#: 0108170-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r081026	Date of Collection:	8/7/01
Dil. Factor:	1.96	Date of Analysis:	8/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	1.8	6.0
Toluene	0.98	3.8	1.8	7.0
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	1.6	6.9
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-07-01

ID#: 0108170-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r081027	Date of Collection:	8/7/01
Dil. Factor:	2.06	Date of Analysis:	8/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	23	76
Toluene	1.0	3.9	12	46
Ethyl Benzene	1.0	4.5	2.5	11
m,p-Xylene	1.0	4.5	7.0	31
o-Xylene	1.0	4.5	2.7	12

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	108	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-07-01 Duplicate

ID#: 0108170-03AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r081028	Date of Collection:	8/7/01
Dil. Factor:	2.06	Date of Analysis:	8/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	23	74
Toluene	1.0	3.9	12	47
Ethyl Benzene	1.0	4.5	2.9	13
m,p-Xylene	1.0	4.5	6.6	29
o-Xylene	1.0	4.5	2.7	12

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-07-01

ID#: 0108170-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r081029	Date of Collection:	8/7/01
Dil. Factor:	2.01	Date of Analysis:	8/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	3.9	12
Toluene	1.0	3.8	3.6	14
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.8	8.1
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108170-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r081006	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/10/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108170-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I081004	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/10/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	84
Toluene	0.50	1.9	87
Ethyl Benzene	0.50	2.2	98
m,p-Xylene	0.50	2.2	108
o-Xylene	0.50	2.2	123

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	114	70-130



AIR TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Note

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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Page 1 of 1

Contact Person MARGARET KELLEY
Company BURNS & MCDONNELL
Address 2601 W. 22ND ST. City OAK BROOK State IL Zip 60523
Phone 630-990-0300 FAX 630-990-0301

Collected By: Signature Esther L. Walker

Project info:

P.O. # BURNS & MCDONNELL

Project # 27194-4.07

Project Name Rosie's

Turn Around Time:

Normal

Rush

Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum		
				Initial	Final	Receipt
OFA	2PM-N-Sum-08-07-01	8-7-01 / 9 Hrs	BTEx	28	8.5	9.5 ^{ml}
O2H	2PM-Sum-08-07-01	8-7-01 / 9 Hrs	BTEx	29	8.5	9.5 ^{ml}
O3A	2PM-08-07-01	8-7-01 / 9 Hrs	BTEx	29.5	10	10.5 ^{ml}
O4H	2PM-W-Sum-08-07-01	8-7-01 / 9 Hrs	BTEx	27.5	9	10 ^{ml}

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Received By (Signature) Date/Time

Relinquished By: (Signature) Date/Time:

Received By: (Signature) Date/Time

Notes: PRESERVATION TYPE: N.R.
MATRIX: AMBIENT AIR

Relinquished By: (Signature) Date/Time <i>Yolanda L. Ulrich</i> 8-7-01/4:00 pm	Received By: (Signature) Date/Time	Notes: PRESERVATION TYPE: NR MATRIX: AMBIENT AIR						
Relinquished By: (Signature) Date/Time	Received By (Signature) Date/Time							
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time <i>J. K.</i> 0905- 8/9/01							
Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #	
	FED EX	B3032908 7313	TRE	AMBIENT	GOOD	Yes No	None	0108170



WORK ORDER #: 0108214

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/10/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/17/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-08-08-01	TO-14	9.0 "Hg
02A	RPM-E-SUM-08-08-01	TO-14	10.0 "Hg
03A	Lab Blank	TO-14	NA
04A	LCS	TO-14	NA

CERTIFIED BY:

DATE: 08/17/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0108214

Two 6 Liter Summa Canister samples were received on August 10, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-08-01

ID#: 0108214-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081713	Date of Collection:	8/8/01
Dil. Factor:	1.91	Date of Analysis:	8/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	8.6	28
Toluene	0.96	3.6	5.4	20
Ethyl Benzene	0.96	4.2	1.3	5.7
m,p-Xylene	0.96	4.2	3.7	16
o-Xylene	0.96	4.2	1.4 <i>J</i>	6.3

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	101	70-130

J: ESTIMATED VALUE cm

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-08-01

ID#: 0108214-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081714	Date of Collection:	8/8/01
Dil. Factor:	2.01	Date of Analysis:	8/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	37	120
Toluene	1.0	3.8	16	62
Ethyl Benzene	1.0	4.4	5.7	25
m,p-Xylene	1.0	4.4	13	56
o-Xylene	1.0	4.4	5.0 ✓	22

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

J: ESTIMATED VALUE ✓

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108214-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081705	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108214-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081703	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	93
Toluene	0.50	1.9	108
Ethyl Benzene	0.50	2.2	106
m,p-Xylene	0.50	2.2	117
o-Xylene	0.50	2.2	133 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	100	70-130

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Contract Person T. WILSON Telephone No. 4-4224
Company Faxon's MacDowell

Address: 1000 University Street, Suite 1000, Seattle, WA 98101
Phone: 206-467-0200 **FAX:** 206-467-0201

Gallerie d'Art

Contact Person: <u>Michele L. Kelly</u>		Project Info: <u>P.O. # 7344 McDowell</u>		Turn Around Time: <u>Normal</u>	
Address: <u>2601 W. 22nd St.</u>		City: <u>Orlando</u> State: <u>FL</u> Zip: <u>32805-23</u>		P.O. # <u>7344</u> Project #: <u>407</u>	
Phone: <u>(407) 290-0224</u>		FAX: <u>(407) 290-0224</u>		Project Name: <u>Cassies Park</u>	
Collection System: <u>Soil</u>					
Field Sample ID	Date & Time	Analyses Requested	Carbide Pressure / Vacuum		
<u>PEM-N-Sum-08-02-01</u>	<u>8-8-01 9:30 AM</u>	<u>Block</u>	<u>28</u>	<u>6</u>	
<u>PEM-E-Sum-08-02-01</u>	<u>8-8-01</u>	<u>Block</u>	<u>29</u>	<u>7.5</u>	
<u>PEM-N-Sum-08-02-01</u>	<u>8-8-01</u>	<u>Block</u>	<u>29.5</u>	<u>8.5</u>	
Notes: <u>Sampled at surface</u>					
Replaced by (Signature) Date: <u>8-8-01</u>					
Comments: <u>No other samples taken</u>					
Comments: <u>Sampled at surface</u>					
Comments: <u>Sampled at surface</u>					
Sample ID: <u>PEM-N-Sum-08-02-01</u>	Date: <u>8-8-01</u>	Analyst: <u>MLK</u>	Method: <u>NIC</u>	Comments: <u>None</u>	Entered By: <u>MLK</u>
QTY: <u>1</u>	Yield: <u>0.00</u>	No. Cycles: <u>0</u>	Wt.: <u>0.00</u>		

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WORK ORDER #: 0108235

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL. 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL. 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/11/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/20/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-08-09-01	TO-14	10.5 "Hg
02A	RPM-S-SUM-08-09-01	TO-14	11.0 "Hg
03A	RPM-E-SUM-08-09-01	TO-14	11.0 "Hg
04A	RPM-W-SUM-08-09-01	TO-14	11.0 "Hg
05A	RPM-S-SUM-08-10-01	TO-14	13.0 "Hg
06A	RPM-W-SUM-08-10-01	TO-14	13.0 "Hg
07A	Lab Blank	TO-14	NA
08A	LCS	TO-14	NA

CERTIFIED BY:

DATE: 08/20/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0108235

Six 6 Liter Summa Canister samples were received on August 11, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-09-01

ID#: 0108235-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081915	Date of Collection:	8/9/01
Dil. Factor:	2.06	Date of Analysis:	8/19/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	4.8	16
Toluene	1.0	3.9	3.7	14
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	2.6	11
o-Xylene	1.0	4.5	1.2	5.4

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-09-01

ID#: 0108235-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	C081916	Date of Collection:	8/9/01
Dil. Factor:	2.12	Date of Analysis:	8/19/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	1.3	5.0
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	1.3	5.9
o-Xylene	1.1	4.7	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-09-01

ID#: 0108235-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081917	Date of Collection:	8/9/01
Dil. Factor:	2.12	Date of Analysis:	8/19/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	6.6	21
Toluene	1.1	4.0	4.1	16
Ethyl Benzene	1.1	4.7	1.4	6.3
m,p-Xylene	1.1	4.7	4.3	19
o-Xylene	1.1	4.7	1.7	7.5

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-09-01

ID#: 0108235-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081918	Date of Collection:	8/9/01
Dil. Factor:	2.12	Date of Analysis:	8/19/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	1.3	4.8
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	2.5	11
o-Xylene	1.1	4.7	1.5	6.8

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-10-01

ID#: 0108235-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081919	Date of Collection:	8/10/01
Dil. Factor:	2.36	Date of Analysis:	8/20/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.8	2.0	6.6
Toluene	1.2	4.5	2.0	7.5
Ethyl Benzene	1.2	5.2	Not Detected	Not Detected
m,p-Xylene	1.2	5.2	Not Detected	Not Detected
o-Xylene	1.2	5.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-10-01

ID#: 0108235-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081920	Date of Collection:	8/10/01
Dil. Factor:	2.36	Date of Analysis:	8/20/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.8	Not Detected	Not Detected
Toluene	1.2	4.5	Not Detected	Not Detected
Ethyl Benzene	1.2	5.2	Not Detected	Not Detected
m,p-Xylene	1.2	5.2	Not Detected	Not Detected
o-Xylene	1.2	5.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108235-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081906	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/19/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108235-08A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c081903	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/19/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	93
Toluene	0.50	1.9	108
Ethyl Benzene	0.50	2.2	105
m,p-Xylene	0.50	2.2	111
o-Xylene	0.50	2.2	126

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	98	70-130



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time:

BELINQUISHED BY (Signature) Date **10/10/2010**

Bellinguished By: (Signature) Date/Tim

1990-1991 学年 第一学期

Notes:

PRESERVATION TYPE: NR
MATERIAL: AMBIENT AIR

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
Fed Ex	830-32908522	65	-	good	Yes No <input checked="" type="checkbox"/> None	0108235



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Page 1 of 1

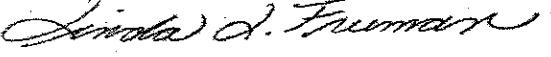
Contact Person <u>Margaret Kerley</u>	Project info:			Turn Around Time:			
Company <u>Buens & McDonnell</u>	P.O. # <u>Buens & McDonnell</u>			<input checked="" type="checkbox"/> Normal			
Address <u>2601 W. 22nd St.</u>	City <u>Oak Brook</u> State <u>IL</u> Zip <u>60523</u>			Project # <u>27194-4.07</u>			
Phone <u>630-990-0300</u>	FAX <u>630-990-0301</u>			Project Name <u>Rogers Park WMA</u>			
Collected By: Signature <u>Victor J. Hinkley</u>				<input type="checkbox"/> Rush _____ Specify <u>28-8-23-0</u>			
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt	
2PM-N-Sum-08-10-01	8-10-01 / BTEX		BTEX Do Not Analyze	29	12		
2PM-S-Sum-08-10-01	8-10-01 /		BTEX	28.5	11	13.04 Hz	
2PM-E-Sum-08-10-01	8-10-01 /		BTEX Do Not Analyze	29.5	13		
2PM-W-Sum-08-10-01	8-10-01 /		BTEX	29	12	13.04 Hz	
Relinquished By: (Signature) Date/Time <u>Victor J. Hinkley</u> 8-10-01 / 3:00 pm	Received By: (Signature) Date/Time <u>C. J. Hinkley</u> - Atc 8-16-01 9:30			Notes: PRESERVATION TYPE: NR MATRIX: AMBIENT AIR			
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>FedEx</u>	<u>830329087232</u>	<u>RGJ</u>	<u>-</u>	<u>soot</u>	<u>Yes</u> <u>No</u> <u>None</u>	<u>0108235</u>

WORK ORDER #: 0108311

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/15/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/22/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-S-SUM-08-13-01	TO-14	9.0 "Hg
02A	RPM-W-SUM-08-13-01	TO-14	9.0 "Hg
02AA	RPM-W-SUM-08-13-01 Duplicate	TO-14	9.0 "Hg
03A	Lab Blank	TO-14	NA
03B	Lab Blank	TO-14	NA
04A	LCS	TO-14	NA
04B	LCS	TO-14	NA

CERTIFIED BY: 

DATE: 08/22/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell
Workorder# 0108311

Two 6 Liter Summa Canister samples were received on August 15, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-13-01

ID#: 0108311-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082024	Date of Collection:	8/13/01
Dil. Factor:	1.91	Date of Analysis:	8/21/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	2.6	8.3
Toluene	0.96	3.6	1.1	4.4
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-13-01

ID#: 0108311-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082128	Date of Collection:	8/13/01
Dil. Factor:	1.91	Date of Analysis:	8/22/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	1.5	6.8
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-13-01 Duplicate

ID#: 0108311-02AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082129	Date of Collection:	8/13/01
Dil. Factor:	1.91	Date of Analysis:	8/22/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	1.4	6.0
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

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SAMPLE NAME: Lab Blank

ID#: 0108311-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082007	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/20/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	.96	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108311-03B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082110	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/21/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	.99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	107	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108311-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082005	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/20/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	93
Toluene	0.50	1.9	108
Ethyl Benzene	0.50	2.2	106
m,p-Xylene	0.50	2.2	106
o-Xylene	0.50	2.2	120

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108311-04B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082103	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/21/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	94
Toluene	0.50	1.9	106
Ethyl Benzene	0.50	2.2	112
m,p-Xylene	0.50	2.2	128
o-Xylene	0.50	2.2	140 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	106	70-130



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Page 1 of 1

Contact Person <u>MARGARET KELLY</u>	Project Info:			Turn Around Time:		
Company <u>Burns & McDonnell</u>	P.O. # <u>Burns & McDonnell</u>			<input checked="" type="checkbox"/> Normal		
Address <u>2601 W. 22nd St</u>	City <u>Oak Brook</u> State <u>IL</u> Zip <u>60523</u>			Project # <u>27194-4.07</u>		
Phone <u>630-990-0300</u>	FAX <u>630-990-0301</u>			Project Name <u>Rogers Park</u> <u>MATRIX</u>		
Collected By: Signature <u>Laurie L. Kelly</u>				Specify _____		
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
OLN	2PM-B-N-Sum-08-13-01	8-13-01 / 9.5 hrs	BTEX Do Not Analyze	29.5	8.5	9.0111
OLN	2PM-S-Sum-08-13-01	8-13-01 / 9.5 hrs	BTEX	29	7.5	9.0111
OZP	2PM-E-Sum-08-13-01	8-13-01 / 9.5 hrs	BTEX Do Not Analyze	30	9	
OZP	2PM-W-Sum-08-13-01	8-13-01 / 9.5 hrs	BTEX	29.5	8.5	9.0111
Relinquished By: (Signature) Date/Time <u>Laurie L. Kelly</u> 8-13-01 / 4:00pm						
Received By: (Signature) Date/Time <u>Keller, Buechner</u> 8/15/01 15:15						
Notes: PRESERVATION TYPE: NR MATRIX: AMBIENT AIR						
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time					
Shipper Name <u>FedEx</u>	Air Bill # <u>830329087254</u>	Opened By: <u>KC B</u>	Temp. (°C) <u>-</u>	Condition <u>good</u>	Custody Seals Intact? <u>Yes</u> <u>No</u> <u>None</u>	Work Order # <u>0108311</u>
Lab Use Only						



WORK ORDER #: 0108343

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/16/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/23/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-08-14-01	TO-14	12.0 "Hg
02A	RPM-S-SUM-08-14-01	TO-14	12.0 "Hg
03A	RPM-E-SUM-08-14-01	TO-14	7.0 "Hg
04A	RPM-W-SUM-08-14-01	TO-14	12.0 "Hg
05A	Lab Blank	TO-14	NA
05B	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA
06B	LCS	TO-14	NA

CERTIFIED BY: Sandra D. Freeman

DATE: 08/23/01

Laboratory Director

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0108343

Four 6 Liter Summa Canister samples were received on August 16, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-14-01

ID#: 0108343-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082221	Date of Collection:	8/14/01
Dil. Factor:	2.23	Date of Analysis:	8/22/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.6	Not Detected	Not Detected
Toluene	1.1	4.3	1.3	4.9
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected
m,p-Xylene	1.1	4.9	Not Detected	Not Detected
o-Xylene	1.1	4.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-14-01

ID#: 0108343-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r0822222	Date of Collection:	8/14/01
Dil. Factor:	2.23	Date of Analysis:	8/22/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.6	Not Detected	Not Detected
Toluene	1.1	4.3	1.2	4.6
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected
m,p-Xylene	1.1	4.9	1.3	5.6
o-Xylene	1.1	4.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-14-01

ID#: 0108343-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082308	Date of Collection:	8/14/01
Dil. Factor:	1.75	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.88	2.8	Not Detected	Not Detected
Toluene	0.88	3.4	1.2	4.7
Ethyl Benzene	0.88	3.9	Not Detected	Not Detected
m,p-Xylene	0.88	3.9	1.3	5.6
o-Xylene	0.88	3.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-14-01

ID#: 0108343-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	R082509	Date of Collection:	8/14/01
Dil. Factor:	2.23	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.6	Not Detected	Not Detected
Toluene	1.1	4.3	1.2	4.5
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected
m,p-Xylene	1.1	4.9	1.7	7.5
o-Xylene	1.1	4.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108343-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	082205	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/22/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108343-05B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	R082307	Date of Collection:	NA
DIL Factor:	1.00	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108343-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082204	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	8/22/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	80
Toluene	0.50	1.9	88
Ethyl Benzene	0.50	2.2	91
m,p-Xylene	0.50	2.2	96
o-Xylene	0.50	2.2	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108343-06B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082306	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	97
Ethyl Benzene	0.50	2.2	87
m,p-Xylene	0.50	2.2	90
o-Xylene	0.50	2.2	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

WORK ORDER #: 0108368

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/17/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/24/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC./PRES.</u>
01A	RPM-N-SUM-08-15-01	TO-14	10.0 "Hg
02A	RPM-E-SUM-08-15-01	TO-14	10.0 "Hg
03A	RPM-W-SUM-08-15-01	TO-14	10.5 "Hg
04A	Lab Blank	TO-14	NA
05A	LCS	TO-14	NA

CERTIFIED BY: Sandra D. Freeman

DATE: 08/24/01

Laboratory Director

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0108368

Three 6 Liter Summa Canister samples were received on August 17, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-15-01

ID#: 0108368-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082314	Date of Collection:	8/15/01
Dil. Factor:	2.01	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.0	3.4
Toluene	1.0	3.8	1.9	7.3
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	110	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-15-01

ID#: 0108368-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082315	Date of Collection:	8/15/01
Dil. Factor:	2.01	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.4	9.1
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-15-01

ID#: 0108368-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r0823f6	Date of Collection:	8/15/01
Dil. Factor:	2.06	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.9	3.2	12
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	1.3	5.6
o-Xylene	1.0	4.5	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108368-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082307	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108368-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082306	Date of Collection:	NA
Dif. Factor:	1.00	Date of Analysis:	8/23/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	97
Ethyl Benzene	0.50	2.2	87
m,p-Xylene	0.50	2.2	90
o-Xylene	0.50	2.2	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130



CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Contact Person MARGARET Keeler
Company Burns & McDonnell
Address 2601 N. 22nd St. City DARK PARK State IL Zip 60523
Phone 630-990-0300 FAX 630-990-0301

Collected By: Signature Margaret Keeler

Project Info:

P.O. # Burns & McDonnell
Project # 27194-4.07
Project Name Rogers Park
ILMN

Turn Around Time:

Normal

Rush

Specify _____

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum		
				Initial	Final	Receipt
RA	EPM-1-Sum-08-15-01	8-15-01 / 9:54AM	BTEX	29	9.5	10:14
	EPM-S-Sum-08-15-01	8-15-01 / 9:54AM	BTEX Do Not Analyze	28.5	8.5	
RA	EPM-E-Sum-08-15-01	8-15-01 / 9:54AM	BTEX	30	10.5	10:14
	EPM-W-Sum-08-15-01	8-15-01 / 9:54AM	BTEX	29.5	9.5	10:51L

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes:

PRESERVATION TYPE: NR
MATRIX: AMBIENT AIR

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seal Intact?	Work Order #
	FedEx	830329087526	125	-	good	Yes No <input checked="" type="radio"/> None	0108368

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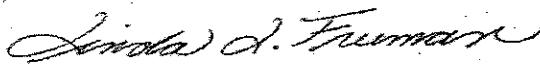
WORK ORDER #: 0108393

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #:	27194-4.07
FAX:	630-990-0301	PROJECT #:	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/18/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/27/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
01A	RPM-N-SUM-08-16-01	TO-14	10.0 "Hg
02A	RPM-S-SUM-08-16-01	TO-14	10.0 "Hg
03A	RPM-E-SUM-08-16-01	TO-14	10.0 "Hg
04A	RPM-N-SUM-08-17-01	TO-14	10.0 "Hg
05A	RPM-S-SUM-08-17-01	TO-14	10.0 "Hg
06A	RPM-E-SUM-08-17-01	TO-14	10.0 "Hg
07A	RPM-W-SUM-08-17-01	TO-14	10.5 "Hg
08A	Lab Blank	TO-14	NA
09A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 08/27/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0108393

Seven 6 Liter Summa Canister samples were received on August 18, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-16-01

ID#: 0108393-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	R082706	Date of Collection:	8/16/01
Dil Factor:	2.01	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.8	7.1
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.0	4.4
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-16-01

ID#: 0108393-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082707	Date of Collection:	8/16/01
Dil. Factor:	2.01	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.4	5.4
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-16-01

ID#: 0108393-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082708	Date of Collection:	8/16/01
Dil. Factor:	2.01	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.3	5.0
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-17-01

ID#: 0108393-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1082709	Date of Collection:	8/17/01
Dil. Factor:	2.01	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-17-01

ID#: 0108393-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082710	Date of Collection:	8/17/01
Dil. Factor:	2.01	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.2	4.6
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-17-01

ID#: 0108393-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082711	Date of Collection:	8/17/01	
Dil. Factor:	2.01	Date of Analysis:	8/27/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-17-01

ID#: 0108393-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082712	Date of Collection:	8/17/01
Dil. Factor:	2.06	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.9	1.0 J	3.9 J
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	Not Detected	Not Detected
o-Xylene	1.0	4.5	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108393-08A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082705	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108393-09A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082704	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/27/04

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	112
Toluene	0.50	1.9	109
Ethyl Benzene	0.50	2.2	94
m,p-Xylene	0.50	2.2	95
o-Xylene	0.50	2.2	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130



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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
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(916) 985-1000 FAX: (916) 985-1020

Page 1 of 1

Contact Person	<u>Mark Street</u>	<u>Holiday</u>
Company	<u>Robinson's Park Donnakee</u>	
Address	<u>2601 W. 22nd St.</u>	City <u>Danvers</u> State <u>IL</u> Zip <u>60523</u>
Phone	<u>(630) 990-0300</u>	FAX <u>(630) 990-0301</u>
Collected By:	Signature <u>Mark Street</u>	

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/TIME

Relinquished By / (Signature) _____ Date _____

Digitized by srujanika@gmail.com

— 472 —

Notes

Notes: *(Handwritten)* Type: NMR

Adams: Amazing Art

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	(initials)	830329087281	(initials)	-	(initials)	Yes No None	0108393



AIR TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE RD SUITE B
FOLSOM, CA 95630-4
(916) 985-1000 FAX: (916) 985-1020

Page _____ of _____

Contact Person <u>Alvin A. Keay</u> Company <u>Intervis & M. Donald</u> Address <u>2601 W. 22nd St.</u> City <u>Dave Break</u> State <u>IL</u> Zip <u>60523</u> Phone <u>(630) 990-0300</u> FAX <u>(630) 990-0301</u> Collected By: Signature <u>S. A. Keay</u>				Project Info: P.O. # <u>Intervis' W.R.D.</u> Project # <u>27194-4.07</u> Project Name <u>Rogers</u> <u>Frank Holland</u>		Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify _____			
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested			Canister Pressure / Vacuum	Initial	Final	Receipt
	CPN-AEsm-08-17-01	8-17-01 19:54es	BTEX			29.5	9.5		
	CPN-S-Esm-08-17-01	8-17-01 1	BTEX			28.5	8.5		
	CPN-F-Esm-08-17-01	8-17-01 1	BTEX			20	10		
	CPN-W-Esm-08-17-01	8-17-01 1	BTEX			29.5	9.5		
Relinquished By: (Signature) Date/Time <u>S. A. Keay 8-17-01 14:00pm</u>			Received By: (Signature) Date/Time			Notes: PROBATIONARY TYPE: N/A MATRIX: AMBIENT AIR			
Relinquished By: (Signature) Date/Time <u>C. W. 8-17-01 18:01 103</u>			Received By: (Signature) Date/Time						
Relinquished By: (Signature) Date/Time <u>C. W. 8-17-01 18:01 103</u>			Received By: (Signature) Date/Time						
Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?		Work Order #	
	<u>Freelby</u>	<u>83037408728</u>	<u>163</u>		<u>good</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> None 0108393	

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

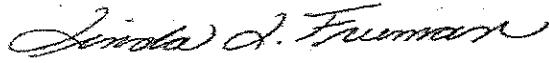
WORK ORDER #: 0108479

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/22/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/29/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	RPM-S-SUM-08-20-01	TO-14	10.0 "Hg
02A	RPM-E-SUM-08-20-01	TO-14	9.0 "Hg
03A	RPM-W-SUM-08-20-01	TO-14	10.0 "Hg
04A	Lab Blank	TO-14	NA
05A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 08/29/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000, (800) 985-5955, FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0108479

Three 6 Liter Summa Canister samples were received on August 22, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-20-01

ID#: 0108479-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082730	Date of Collection:	8/20/01
Dil. Factor:	2.01	Date of Analysis:	8/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-20-01

ID#: 0108479-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082731	Date of Collection:	8/20/01
Dil. Factor:	1.91	Date of Analysis:	8/26/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	1.2	4.6
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-20-01

ID#: 0108479-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	082732	Date of Collection:	8/20/01
Dil. Factor:	2.01	Date of Analysis:	8/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.2	4.7
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.4	6.2
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108479-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082719	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108479-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082718	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	78
Toluene	0.50	1.9	84
Ethyl Benzene	0.50	2.2	90
m,p-Xylene	0.50	2.2	95
o-Xylene	0.50	2.2	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130



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CHAIN-OF-CUSTODY RECORD

Sample Transportation Note

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Page 1 of 1

Contact Person <u>Margaret Keeling</u> Company <u>Friars/MCGrath</u> Address <u>2601 W. 22nd St.</u> City <u>Champaign</u> State <u>IL</u> Zip <u>60523</u> Phone <u>(617) 990-0300</u> FAX <u>(617) 990-0321</u>	Project info: P.O. # <u>Business of MCGrath</u> Project # <u>27194-4.07</u> Project Name <u>Rogers Park</u> <u>Not Air</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify _____					
Collected By: Signature <u>Sally J. Kelly</u>							
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum			
				Initial Final Receipt			
	RPM-N-Snm-08-20-01	8-20-01 / 9:54a	BTEX Do Not Analyze	29 9			
	RPM-S-Snm-08-20-01	8-20-01 /	BTEX	29.5 8			
	RPM-E-Snm-08-20-01	8-20-01 /	BTEX	29 9.5			
	RPM-W-Snm-08-20-01	8-20-01 /	BTEX	29.5 9			
Relinquished By: (Signature) Date/Time <u>Sally J. Kelly</u> 8-20-01 / 4:30pm		Received By: (Signature) Date/Time		Notes: Extractions Type: N/R MATRIX: Ambient Air			
Relinquished By: (Signature) Date/Time <u>Sally J. Kelly</u>		Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time <u>Sally J. Kelly</u>		Received By: (Signature) Date/Time <u>Sally J. Kelly</u>					
Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FED EX	827729737025	TAS.	AMBIENT	GOOD	Yes No None	0108479

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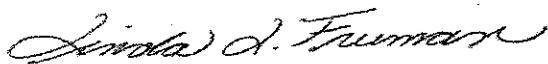
WORK ORDER #: 0108517

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/23/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/30/01		

<u>FRACTION</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-08-21-01	TO 13	9.0 "Hg
02A	RPM-E-SUM-08-21-01	TO-14	9.0 "Hg
03A	Lab Blank	TO-14	NA
04A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 08/30/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0108517

Two 6 Liter Summa Canister samples were received on August 23, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no receiving discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-21-01

ID#: 0108517-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	F082735	Date of Collection:	8/21/01
Dil. Factor:	1.91	Date of Analysis:	8/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	2.3	8.8
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	1.7	7.4
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-21-01

ID#: 0108517-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082734	Date of Collection:	8/21/01
Dil. Factor:	1.91	Date of Analysis:	8/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	2.3	8.9
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	1.1	5.0
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	126	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108517-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082719	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108517-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082718	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	78
Toluene	0.50	1.9	84
Ethyl Benzene	0.50	2.2	90
m,p-Xylene	0.50	2.2	95
o-Xylene	0.50	2.2	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Page 1 of 1

Contact Person <u>Alma Green Koenig</u> Company <u>Bureau of M. Products</u> Address <u>2601 16th Street S.</u> City <u>San Jose</u> State <u>CA</u> Zip <u>95131</u> Phone <u>630-990-0800</u> FAX <u>630-990-0301</u>	Project info: P.O. # <u>Bureau M. Products</u> Project # <u>21101-4.07</u> Project Name <u>Reservoir Park</u> <u>Alma</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ Specify _____
Collected By: Signature <u>Alma Green Koenig</u>		

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Canister Pressure / Vacuum Final	Receipt
	PM-N-Sun-08-21-01	8-21-01/9:57AM	BTEX	29.5	8.5	✓
	PM-S-Sun-08-21-01	8-21-01/	BTEX Do Not Analyze	29.5	8	
	PM-E-Sun-08-21-01	8-21-01/	BTEX	29	9.75	✓
	PM-W-Sun-08-21-01	8-21-01/	BTEX Do Not Analyze	29.5	9	

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes: *Preservation Type: N/R
Matrix: Ambient air*

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
<i>Felix</i>	9277 2023 7026	<i>CG</i>		<i>in good condition</i>	<i>Yes No None</i>	0108517

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

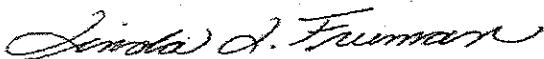
WORK ORDER #: 0108550

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/24/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/30/01		

FRACTION #	NAME	TEST	RECEIPT VAC/PRES.
01A	RPM-N-SUM-08-22-01	TO-14	10.0 "Hg
02A	RPM-S-SUM-08-22-01	TO-14	10.0 "Hg
03A	RPM-E-SUM-08-22-01	TO-14	10.0 "Hg
04A	RPM-W-SUM-08-22-01	TO-14	10.0 "Hg
04AA	RPM-W-SUM-08-22-01 Duplicate	TO-14	10.0 "Hg
05A	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 08/31/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0108550

Four 6 Liter Summa Canister samples were received on August 24, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-22-01

ID#: 0108550-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082721	Date of Collection:	8/22/01
Dil Factor:	2.01	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.6	6.1
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	98	70-130

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SAMPLE NAME: RPM-S-SUM-08-22-01

ID#: 0108550-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082722	Date of Collection:	8/22/01
Dil. Factor:	2.01	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	5.3	20
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-22-01

ID#: 0108550-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082723	Date of Collection:	8/22/01
Dil. Factor:	2.01	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	5.0	19
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.0 J	4.4 J
o-Xylene	1.0	4.4	Not Detected	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	97	70-130

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SAMPLE NAME: RPM-W-SUM-08-22-01

ID#: 0108550-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082724	Date of Collection:	8/22/01
Dil. Factor:	2.01	Date of Analysis:	8/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	4.9	19
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-22-01 Duplicate

ID#: 0108550-04AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082725	Date of Collection:	8/22/01
Dil. Factor:	2.01	Date of Analysis:	8/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	4.8	18
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.0	4.4
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108550-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r082719	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

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SAMPLE NAME: LCS

ID#: 0108550-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1082718	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	78
Toluene	0.50	1.9	84
Ethyl Benzene	0.50	2.2	90
m,p-Xylene	0.50	2.2	95
o-Xylene	0.50	2.2	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130



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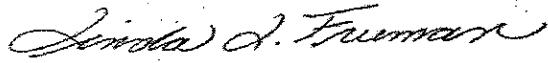
WORK ORDER #: 0108571

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/25/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	8/31/01		

FRACTION #	NAME	TEST	RECEIPT VAC/PRES.
01A	RPM-N-SUM-08-23-01	TO-14	9.5 "Hg
02A	RPM-S-SUM-08-23-01	TO-14	9.5 "Hg
03A	RPM-E-SUM-08-23-01	TO-14	9.5 "Hg
04A	RPM-W-SUM-08-23-01	TO-14	9.5 "Hg
05A	RPM-N-SUM-08-24-01	TO-14	11.5 "Hg
06A	RPM-S-SUM-08-24-01	TO-14	11.5 "Hg
07A	RPM-E-SUM-08-24-01	TO-14	11.5 "Hg
07AA	RPM-E-SUM-08-24-01 Duplicate	TO-14	11.5 "Hg
08A	RPM-W-SUM-08-24-01	TO-14	11.5 "Hg
09A	Lab Blank	TO-14	NA
10A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 08/31/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0108571

Eight 6 Liter Summa Canister samples were received on August 25, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-23-01

ID#: 0108571-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q082918	Date of Collection:	8/23/01
Dil. Factor:	1.96	Date of Analysis:	8/29/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	Not Detected	Not Detected
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	87	70-130

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SAMPLE NAME: RPM-S-SUM-08-23-01

ID#: 0108571-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082919	Date of Collection:	8/23/01
Dil. Factor:	1.96	Date of Analysis:	8/29/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	2.3	8.7
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	90	70-130

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SAMPLE NAME: RPM-E-SUM-08-23-01

ID#: 0108571-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q082920	Date of Collection:	8/23/01
Dil. Factor:	1.96	Date of Analysis:	8/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	3.3	13
Ethyl Benzene	0.98	4.3	3.2	14
m,p-Xylene	0.98	4.3	11	50
o-Xylene	0.98	4.3	6.0	27

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	86	70-130

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SAMPLE NAME: RPM-W-SUM-08-23-01

ID#: 0108571-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q082921	Date of Collection:	8/23/01
Dil. Factor:	1.96	Date of Analysis:	8/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.9	7.2
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-24-01

ID#: 0108571-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	082922	Date of Collection:	8/24/01
Dil. Factor:	2.17	Date of Analysis:	8/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	2.8	11
Ethyl Benzene	1.1	4.8	2.7	12
m,p-Xylene	1.1	4.8	10	46
o-Xylene	1.1	4.8	5.8	25

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-24-01

ID#: 0108571-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c082923	Date of Collection:	8/24/01
Dil. Factor:	2.17	Date of Analysis:	8/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	6.1	23
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-24-01

ID#: 0108571-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q082924	Date of Collection:	8/24/01
Dil. Factor:	2.17	Date of Analysis:	8/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	2.6	10
Ethyl Benzene	1.1	4.8	2.2	9.7
m,p-Xylene	1.1	4.8	8.2	36
o-Xylene	1.1	4.8	4.4	19

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	87	70-130

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SAMPLE NAME: RPM-E-SUM-08-24-01 Duplicate

ID#: 0108571-07AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q082925	Date of Collection:	8/24/01
Dil. Factor:	2.17	Date of Analysis:	8/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	2.6	10
Ethyl Benzene	1.1	4.8	2.2	9.8
m,p-Xylene	1.1	4.8	8.3	36
o-Xylene	1.1	4.8	4.2	18

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-24-01

ID#: 0108571-08A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q082926	Date of Collection:	8/24/01
Dil. Factor:	2.17	Date of Analysis:	8/30/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	89	70-130

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SAMPLE NAME: Lab Blank

ID#: 0108571-09A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q082911	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/29/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	84	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108571-10A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	0082904	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	8/29/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	76
Toluene	0.50	1.9	79
Ethyl Benzene	0.50	2.2	87
m,p-Xylene	0.50	2.2	90
o-Xylene	0.50	2.2	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130



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CHAIN-OF-CUSTODY RECORD

Sample Transportation Needs

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(916) 985-1000 FAX: (916) 985-1020

Page 1 of 1

Contact Person <u>MARGARET BROWN</u>	Project info:						
Company <u>Brown & Rie Donahue</u>	P.O. # <u>Brown & Rie Donahue</u>	Turn Around Time:					
Address <u>2601 W. 22nd St.</u>	City <u>Oak Brook</u>	<input checked="" type="checkbox"/> Normal	Specify _____				
Phone <u>(630) 970-0300</u>	State <u>IL</u>	Zip <u>60521</u>	Project # <u>27194-4-07</u>				
Collected By: Signature <u>Margaret Brown</u>	Project Name <u>Regatta Park</u> <u>W107m</u>						
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/ Vacuum Initial	Final	Receipt	
	CPM-N-Grain-08-23-01	8-23-01 / 9.5 hrs	BTEX	29	9.5	9.5	
	CPM-S-Grain-08-23-01	8-23-01 / 9.5 hrs	BTEX	29.5	8.5	8.5	
	CPM-E-Grain-08-23-01	8-23-01 / 9.5 hrs	BTEX	30	10	10	
	CPM-W-Grain-08-23-01	8-23-01 / 9.5 hrs	BTEX	29.5	9	9	
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time		Notes: Precision -10% TYPE : NR MATRIX : Aqueous AIR			
<u>John Doherty 8-23-01 4:00pm</u>		<u>CDR 8-23-01 8:00am</u>					
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
<u>John Doherty 8-23-01 8:00am</u>		<u>CDR 8-23-01 8:00am</u>					
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>John Doherty</u>	<u>61957291739158</u>	<u>CDR</u>	<u>20.0</u>	<u>Good</u>	<u>Yes</u> <u>No</u> <u>(None)</u>	<u>0108571</u>



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CHAIN-OF-CUSTODY RECORD

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719

Page 7 of 1

Contact Person <u>Margaret Kollar</u>	Project info:			Turn Around Time:			
Company <u>Briars & M² Donnan</u>	P.O. # <u>Briars & M² Donnan</u>			<input checked="" type="checkbox"/> Normal			
Address <u>2601 W. 22nd St.</u>	City <u>Danville</u>	State <u>IL</u>	Zip <u>60523</u>	Project # <u>27194-4.07</u>			
Phone <u>(630) 990-0200</u>	FAX <u>(630) 990-0201</u>	Project Name <u>Rogers Park</u> <u>airline</u>			<input type="checkbox"/> Rush _____		
Collected By: Signature <u>Sabrina Shultz</u>							
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested		Canister Pressure / Vacuum		
					Initial	Final	
	PM-A-Sum-08-24-01	8-24-01 / 8:58am	BTEX		29.5	11	
	PM-S-Sum-08-24-01	8-24-01 /	PSTEX		28.5	10	
	PM-C-Sum-08-24-01	8-24-01 /	BTX		30	12	
	PM-W-Sum-08-24-01	8-24-01 /	+PSTEX		29.5	11	
Relinquished By: (Signature) Date/Time <u>Sabrina Shultz 8-24-01 3:30pm</u>			Received By: (Signature) Date/Time <u>John D. Donnan 8-25-01 8:58</u>			Notes: PRESENTATION TYPE: DULR MATRIX: AMBIENT AIR	
Relinquished By: (Signature) Date/Time <u>John D. Donnan 8-25-01 8:58</u>			Received By: (Signature) Date/Time <u>John D. Donnan 8-25-01 8:58</u>				
Relinquished By: (Signature) Date/Time <u>John D. Donnan 8-25-01 8:58</u>			Received By: (Signature) Date/Time <u>John D. Donnan 8-25-01 8:58</u>				
Lab Use Only	Shipper Name <u>FedEx</u>	Air Bill # <u>2215297370058</u>	Opened By <u>CS</u>	Temp. (°C)	Condition <u>good</u>	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	Work Order # <u>010857</u>

WORK ORDER #: 0108627

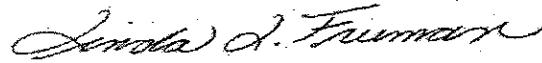
Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/29/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/5/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-08-27-01	TO-14	10.0 "Hg
02A	RPM-S-SUM-08-27-01	TO-14	10.0 "Hg
03A	RPM-E-SUM-08-27-01	TO-14	10.0 "Hg
04A	RPM-W-SUM-08-27-01	TO-14	10.0 "Hg
04AA	RPM-W-SUM-08-27-01 Duplicate	TO-14	10.0 "Hg
05A	Lab Blank	TO-14	NA
05B	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA
06B	LCS	TO-14	NA



CERTIFIED BY:



DATE: 09/05/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0108627

Four 6 Liter Silonite Canister samples were received on August 29, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

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SAMPLE NAME: RPM-N-SUM-08-27-01

ID#: 0108627-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c090411	Date of Collection:	8/27/01
Dil. Factor:	2.01	Date of Analysis:	9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.0	7.6
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-27-01

ID#: 0108627-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c090412	Date of Collection:	8/27/01
Dil. Factor:	2.01	Date of Analysis:	9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.3	8.7
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	3.6	16
o-Xylene	1.0	4.4	2.6	11

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	103	70-130

J: ESTIMATED VALUE CM

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-27-01

ID#: 0108627-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090416	Date of Collection:	8/27/01	
Dil. Factor:	2.01	Date of Analysis:	9/4/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.1	7.9
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-27-01

ID#: 0108627-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090417	Date of Collection:	8/27/01
Dil. Factor:	2.01	Date of Analysis:	9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.0	7.8
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-27-01 Duplicate

ID#: 0108627-04AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090418	Date of Collection:	8/27/01
Dil. Factor:	2.01	Date of Analysis:	9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.0	7.9
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130

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SAMPLE NAME: Lab Blank

ID#: 0108627-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c090407	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108627-05B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	F090408	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108627-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c090403	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	94
Toluene	0.50	1.9	105
Ethyl Benzene	0.50	2.2	111
m,p-Xylene	0.50	2.2	123
o-Xylene	0.50	2.2	137 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108627-06B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090404	Date of Collection:	NA
Dil. Factor:	1:00	Date of Analysis:	9/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	79
Toluene	0.50	1.9	85
Ethyl Benzene	0.50	2.2	89
m,p-Xylene	0.50	2.2	92
o-Xylene	0.50	2.2	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130



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180 BLUE RAVINE RD / SUITE B
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Page 1 of 1

Contact Person <u>Margaret Kelley</u>	Project Info:						
Company <u>Bureau of Land Management</u>	P.O. # <u>Bureau of Land Management</u>	Turn Around Time:					
Address <u>2601 18th St.</u>	City <u>Denver</u>	<input checked="" type="checkbox"/> Normal					
Phone <u>(303) 295-0200</u>	State <u>CO</u>	<input type="checkbox"/> Rush					
FAX <u>(303) 295-0301</u>	Zip <u>80205</u>	Specify _____					
Collected By: Signature <u>S. Kelley</u>							
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum			
	RPM-A-Sum-0827-01	8-27-01 14:57	BTX	Initial 29.5 Final 29.5 Receipt 0.5			
	RPM-B-Sum-0827-01	8-27-01 14:57	BTX	29.5 29.5 0.5			
	RPM-C-Sum-0827-01	8-27-01 14:57	BTX	29.5 10.5 0.5			
	RPM-D-Sum-0827-01	8-27-01 14:57	BTX	29 9.5 0.5			
Relinquished By: (Signature) Date/Time <u>S. Kelley</u> 8-27-01 14:38pm	Received By: (Signature) Date/Time	Notes: Pressure Medium Type: NR MATRIX: Ambient Air					
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time <u>Keller</u> 8-27-01 08:39						
Lab Use Only	Shipper Name <u>YACEx</u>	Air Bill # <u>877774737026</u>	Opened By <u>MLB</u>	Temp. (°C) <u>AMBI</u>	Condition <u>good</u>	Custody Seals Intact? <u>Yes</u> <u>No</u> <u>None</u>	Work Order # <u>0108627</u>



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0108666

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	8/30/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/6/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-S-SUM-08-28-01	TO-14	10.0 "Hg
02A	RPM-W-SUM-08-28-01	TO-14	10.0 "Hg
03A	Lab Blank	TO-14	NA
04A	LCS	TO-14	NA

CERTIFIED BY:

DATE: 09/06/01

Laboratory Director

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell
Workorder# 0108666

Two 6 Liter Silonite Canister samples were received on August 30, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

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SAMPLE NAME: RPM-S-SUM-08-28-01

ID#: 0108666-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1090515	Date of Collection:	8/28/01
Dil. Factor:	2.01	Date of Analysis:	9/5/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-28-01

ID#: 0108666-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1090516	Date of Collection:	8/28/01
Dil. Factor:	2.01	Date of Analysis:	9/5/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0108666-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1090506	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	9/5/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0108666-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I090504	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/5/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	89
Toluene	0.50	1.9	89
Ethyl Benzene	0.50	2.2	90
m,p-Xylene	0.50	2.2	102
o-Xylene	0.50	2.2	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130



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CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Contact Person	Margaret Kelley					
Company	Bennett & McDonald					
Address	21001 W. 22 nd ST.	City	Dale Park State IL Zip 60523			
Phone	630-990-0300	FAX	630-990-0301			
Collected By:	Signature					
<p><i>John J. Malley</i></p> <p>21001 W. 22nd ST. Dale Park IL 60523 630-990-0300</p>						
Project info:						
P.O. #	Bennet & McDonald					
Project #	27194-H-07					
Project Name	Bennet Park IL					
Turn Around Time:	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ Specify					
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
	RPM-N-Snm-08-28-01	8-28-01 / 9 hrs	BTEX	Do Not Analyze	29	9.5
	RPM-S-Snm-08-28-01	8-28-01 /	BTEX		28.5	9
	RPM-E-Snm-08-28-01	8-28-01 /	BTEX	Do Not Analyze	29.5	10.5
	RPM-W-Snm-08-28-01	8-28-01 /	BTEX		29.5	10
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time	Notes: MANUFACTURER: AIR MATRIX: AMBIENT AIR		
<i>John J. Malley</i>	8-28-01 / 8:00 am					
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time			
		<i>John J. Malley</i>	8-28-01 / 9:10			
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time			
Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
<i>BTEX</i>	829728732152	60		<i>J</i>	Yes No <input checked="" type="checkbox"/> None	0108666
Lab Use Only						

WORK ORDER #: 0109002

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/4/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/11/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	RPM-N-SUM-08-29-01	TO-14	10.0 "Hg
02A	RPM-W-SUM-08-29-01	TO-14	10.5 "Hg
03A	Lab Blank	TO-14	NA
04A	LCS	TO-14	NA

CERTIFIED BY:

Sinclair D. Frumar

DATE: 09/11/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0109002

Two 6 Liter Silonite Canister samples were received on August 31, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-29-01

ID#: 0109002-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090909	Date of Collection:	8/29/01
Dil. Factor:	2.01	Date of Analysis:	9/9/01
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)
Benzene	1.0	3.3	Not Detected
Toluene	1.0	3.8	5.5
Ethyl Benzene	1.0	4.4	1.6
m,p-Xylene	1.0	4.4	1.1
o-Xylene	1.0	4.4	Not Detected

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-29-01

ID#: 0109002-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090910	Date of Collection:	8/29/01
Dil. Factor:	2.06	Date of Analysis:	9/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	1.3	4.1
Toluene	1.0	3.9	2.1	8.1
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	Not Detected	Not Detected
o-Xylene	1.0	4.5	Not Detected	Not Detected

Container Type: 6 Liter Silonite Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	84	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109002-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	0109004	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	87	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109002-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	01090903	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	103
Toluene	0.50	1.9	112
Ethyl Benzene	0.50	2.2	110
m,p-Xylene	0.50	2.2	117
o-Xylene	0.50	2.2	128

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130



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Page 1 of 1

Contact Person	MARGARET KELLEY			Project info:			
Company	Brennan & Mc Donnell			P.O. #	Brennan & Mc Donnell		
Address	21001 W. 22nd St.	City	Dick Brook	State	IL	Zip	60052
Phone	630-990-0300	FAX	630-990-0301	Project #	27194-4.07		
Collected By: Signature	<i>J. Kelley</i>			Project Name	Brennan & Mc Donnell		
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested			Canister Pressure / Vacuum	
	CRN-N-Snm-08-29-01	8-29-01 / 9AM	BTEX			Initial	Final
	CRN-B-Snm-08-29-01	8-29-01 /	BTEX Do Not Analyze			28.5	9.5
	CRN-E-Snm-08-29-01	8-29-01 /	BTEX Do Not Analyze			30	11
	CRN-W-Snm-08-29-01	8-29-01 /	BTEX			29.5	10
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time		Notes: Preservation Type: NR Matrix: Ambient Air			
<i>J. Kelley</i> 8-29-01 1600							
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
<i>J. Kelley</i> 8-29-01 1600							
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	<i>Ed L.</i>	822774-003-0023	60	50°C	Yes No None		0109002

WORK ORDER #: 0109010

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/1/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/11/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC./PRES.</u>
01A	RPM-N-SUM-08-30-01	TO-14	10.5 "Hg
02A	RPM-S-SUM-08-30-01	TO-14	12.5 "Hg
03A	RPM-E-SUM-08-30-01	TO-14	12.5 "Hg
04A	RPM-W-SUM-08-30-01	TO-14	12.5 "Hg
05A	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA

CERTIFIED BY:

Jineta D. Truman

DATE: 09/11/01

Laboratory Director

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0109010

Four 6 Liter Summa Canister samples were received on September 01, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-08-30-01

ID#: 0109010-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090812	Date of Collection:	8/30/01
Dil. Factor:	2.06	Date of Analysis:	9/8/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.9	1.7	6.6
Ethyl Benzene	1.0	4.5	Not Detected	Not Detected
m,p-Xylene	1.0	4.5	Not Detected	Not Detected
o-Xylene	1.0	4.5	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-30-01

ID#: 0109010-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090813	Date of Collection:	8/30/01
Dil. Factor:	2.30	Date of Analysis:	9/8/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	1.9	7.4
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	1.8	7.9
o-Xylene	1.2	5.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-08-30-01

ID#: 0109010-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090814	Date of Collection:	8/30/01
Dil. Factor:	2.30	Date of Analysis:	9/8/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	1.8	7.0
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	Not Detected	Not Detected
o-Xylene	1.2	5.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	87	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-08-30-01

ID#: 0109010-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090815	Date of Collection:	8/30/01
Dil. Factor:	2.30	Date of Analysis:	9/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.2	3.7	Not Detected	Not Detected
Toluene	1.2	4.4	1.6	6.2
Ethyl Benzene	1.2	5.1	Not Detected	Not Detected
m,p-Xylene	1.2	5.1	Not Detected	Not Detected
o-Xylene	1.2	5.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	87	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109010-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090806	Date of Collection:	NA
Dil. Factor:	1:00	Date of Analysis:	9/8/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109010-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r090805	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/6/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	105
Toluene	0.50	1.9	110
Ethyl Benzene	0.50	2.2	109
m,p-Xylene	0.50	2.2	109
o-Xylene	0.50	2.2	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

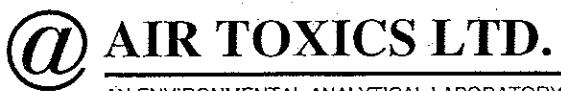
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180 BLUE RAVINE ROAD, SUITE B

FOLSOM, CA 95630-4719

Page 1 of 1

Contact Person	MARGARET KELLY			Project Info:	Turn Around Time:		
Company	Burns & McDonnell			P.O. #	<input checked="" type="checkbox"/> Normal		
Address	2601 W. 22nd ST.	City	Dak Brook	Project #	<input type="checkbox"/> Rush _____		
Phone	630-990-0300	State	IL Zip 60523	Project Name	Specify _____		
Collected By: Signature	Lorraine L. Kelly						
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum			
	RPM-N-Sum-08-30-01	8-30-01/9 AM	BTEX	Initial	Final	Receipt	
01A	RPM-S-Sum-08-30-01	8-30-01/	BTEX	29.5	10	10.5"	
02A	RPM-E-Sum-08-30-01	8-30-01/	BTEX	28.5	11	12.5"	
03A	RPM-W-Sum-08-30-01	8-30-01/	BTEX	30	12.5	12.5"	
04A	RPM-W-Sum-08-30-01	8-30-01/	BTEX	29.5	12	12.5"	
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time			Notes:			
Lorraine L. Kelly 8-30-01/4:00pm				PRESERVATION TYPE: NR MATRIX: AMBIENT AIR			
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Shipped Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?		Work Order #
<input checked="" type="checkbox"/> Lab Use Only	82729737091	T5	Ambient	Good	Yes	No	None 0109010



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0109009

Work Order Summary

CLIENT: Ms. Kim Nichols
Burns & McDonnell
2601 W. 22nd St.
Oakbrook, IL 60523-1229

BILL TO: Ms. Margaret Kelley
Burns & McDonnell
2601 W. 22nd St.
Oakbrook, IL 60523-1229

PHONE: 630-990-0300x226 **P.O. #:** 27194-4.07
FAX: 630-990-0301 **PROJECT #:** 27194-4.07 Rogers Park Main
DATE RECEIVED: 9/1/01 **CONTACT:** DeDe Dodge
DATE COMPLETED: 9/11/01

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-S-SUM-08-31-01	TO-14	12.0 "Hg
02A	Lab Blank	TO-14	NA
03A	LCS	TO-14	NA

CERTIFIED BY:

DATE: 09/11/01

Laboratory Director

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0109009

One 6 Liter Summa Canister sample was received on September 01, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-08-31-01

ID#: 0109009-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g091106	Date of Collection:	8/31/01	
Dil. Factor:	2.23	Date of Analysis:	9/11/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.6	Not Detected	Not Detected
Toluene	1.1	4.3	Not Detected	Not Detected
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected
m,p-Xylene	1.1	4.9	Not Detected	Not Detected
o-Xylene	1.1	4.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	87	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109009-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q091104	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	81	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109009-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g091103	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit ($\mu\text{G}/\text{m}^3$)	%Recovery
Benzene	0.50	1.6	89
Toluene	0.50	1.9	83
Ethyl Benzene	0.50	2.2	88
m,p-Xylene	0.50	2.2	91
o-Xylene	0.50	2.2	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	91	70-130

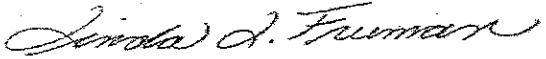
WORK ORDER #: 0109056

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/6/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/13/01		

FRACTION #	NAME	TEST	RECEIPT
			VAC/PRES.
01A	RPM-S-SUM-09-04-01	TO-14	9.0 "Hg
01AA	RPM-S-SUM-09-04-01 Duplicate	TO-14	9.0 "Hg
02A	Lab Blank	TO-14	NA
03A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 09/20/01

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0109056

One 6 Liter Summa Canister sample was received on September 06, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

The canister valve for sample RPM-S-SUM-09-04-01 was found to be faulty during a leak check prior to pressurization. This may have resulted in ultra high purity Nitrogen being introduced into the sample before an initial vacuum/pressure reading could be obtained. The reported analyte concentrations are considered to be estimated.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

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SAMPLE NAME: RPM-S-SUM-09-04-01

ID#: 0109056-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091206	Date of Collection:	9/4/01
Dil. Factor:	1.91	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-04-01 Duplicate

ID#: 0109056-01AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091207	Date of Collection:	9/4/01
DIL Factor:	1.91	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109056-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091204	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	90	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109056-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091203	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	105
Ethyl Benzene	0.50	2.2	111
m,p-Xylene	0.50	2.2	118
o-Xylene	0.50	2.2	126

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



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Page 1 of 1

Contact Person	Wesley Kewen			Project Info:				
Company	Barney & McDonnell			P.O. #	Barney & McDonnell			
Address	2601 W. 22nd St.	City	Oak Brook	State	IL	Zip	60521	
Phone	630-960-0200	FAX	630-960-0201	Project #	20104-407			
Collected By:	Signature			Project Name	Hazardous Waste			
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested			Canister Pressure / Vacuum		
	RPM-A-SUM-09-01-01	9-4-01/8:00am	SPEC D NOT ANALYZE			Initial	Final	Receipt
	RPM-S-SUM-09-01-01	9-4-01/8:00am	SPEC			28.5	12.5	
	RPM-E-SUM-09-01-01	9-4-01/8:00am	SPEC D NOT ANALYZE			29	13	
	RPM-W-SUM-09-01-01	9-4-01/10:00am	SPEC D NOT ANALYZE			29	8.5	
Relinquished By: (Signature) Date/Time			Received By: (Signature) Date/Time			Notes: Measurement Type: NL MATRIX: AMBIENT AIR		
<i>Esther Kelly 9-4-01 14:45pm</i>								
Received By: (Signature) Date/Time								
Relinquished By: (Signature) Date/Time			Received By: (Signature) Date/Time					
<i>Holley Ettinger 9-4-01 14:45pm</i>								
Shipper Name	Air-Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?		Work Order #	
Lab Use Only	<i>Lab 8</i>	<i>8777597012</i>	<i>15°C</i>	<i>95.0°C</i>	Yes	No	None	<i>0109056</i>

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

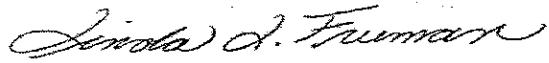
WORK ORDER #: 0109081

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/7/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/14/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-Sum-09-05-01	TO-14	10.0 "Hg
02A	RPM-S-Sum-09-05-01	TO-14	10.0 "Hg
03A	RPM-E-Sum-09-05-01	TO-14	10.0 "Hg
04A	RPM-W-Sum-09-05-01	TO-14	9.5 "Hg
05A	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 09/14/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell
Workorder# 0109081

Four 6 Liter Summa Canister samples were received on September 07, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

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SAMPLE NAME: RPM-N-Sum-09-05-01

ID#: 0109081-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091119	Date of Collection:	9/5/01
Dil. Factor:	2.01	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	84	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-Sum-09-05-01

ID#: 0109081-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091117	Date of Collection:	9/5/01
Dil. Factor:	2.01	Date of Analysis:	9/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	89	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-Sum-09-05-01

ID#: 0109081-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091118	Date of Collection:	9/5/01
Dil. Factor:	2.01	Date of Analysis:	9/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit ($\mu\text{g}/\text{m}^3$)	Amount (ppbv)	Amount ($\mu\text{g}/\text{m}^3$)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.0	4.0
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	87	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-Sum-09-05-01

ID#: 0109081-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091116	Date of Collection:	9/5/01
Dil. Factor:	1.96	Date of Analysis:	9/11/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	Not Detected	Not Detected
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109081-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091111	Date of Collection:	NA	
Dil Factor:	1.00	Date of Analysis:	9/11/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109081-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	F091105	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	100
Toluene	0.50	1.9	106
Ethyl Benzene	0.50	2.2	110
m,p-Xylene	0.50	2.2	110
o-Xylene	0.50	2.2	125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130



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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Bilingualized By: (Signature) Date/Time:

Received by Pub. (Bijan Khan) Date: 15

Being relinquished By: (Signature) Date/Time:

Digitized by srujanika@gmail.com

Notes:

Notes: Preservatives type: alk
nitrate: Ammonium

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
Lab Use Only	Endex	2011-04-12	18	Sealed	Yes No None	0109081

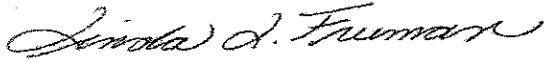
WORK ORDER #: 0109093

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/8/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/17/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>	<u>VAC/PRES.</u>
01A	RPM-N-SUM-09-06-01	TO-14	11.0 "Hg	
02A	RPM-W-SUM-09-06-01	TO-14	11.0 "Hg	
03A	RPM-N-SUM-09-07-01	TO-14	12.0 "Hg	
03AA	RPM-N-SUM-09-07-01 Duplicate	TO-14	12.0 "Hg	
04A	RPM-W-SUM-09-07-01	TO-14	12.0 "Hg	
05A	Lab Blank	TO-14	NA	
06A	LCS	TO-14	NA	

CERTIFIED BY:



DATE: 09/17/01

Laboratory Director

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0109093

Four 6 Liter Summa Canister samples were received on September 08, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-06-01

ID#: 0109093-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I091216	Date of Collection:	9/6/01
Dil. Factor:	2.12	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	2.4	9.2
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	Not Detected	Not Detected
o-Xylene	1.1	4.7	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-06-01

ID#: 0109093-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I091217	Date of Collection:	9/6/01
Dil Factor:	2:12	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	1.1	3.6
Toluene	1.1	4.0	2.8	11
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	1.2	5.3
o-Xylene	1.1	4.7	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-07-01

ID#: 0109093-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I091218	Date of Collection:	9/7/01
Dil. Factor:	2.23	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.6	Not Detected	Not Detected
Toluene	1.1	4.3	Not Detected	Not Detected
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected
m,p-Xylene	1.1	4.9	Not Detected	Not Detected
o-Xylene	1.1	4.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	128	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-07-01 Duplicate

ID#: 0109093-03AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I091219	Date of Collection:	9/7/01
Dil. Factor:	2.23	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.6	Not Detected	Not Detected
Toluene	1.1	4.3	Not Detected	Not Detected
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected
m,p-Xylene	1.1	4.9	Not Detected	Not Detected
o-Xylene	1.1	4.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	91	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-07-01

ID#: 0109093-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I091220	Date of Collection:	9/7/01
Dil. Factor:	2.23	Date of Analysis:	9/13/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.6	Not Detected	Not Detected
Toluene	1.1	4.3	1.3	4.9
Ethyl Benzene	1.1	4.9	Not Detected	Not Detected
m,p-Xylene	1.1	4.9	Not Detected	Not Detected
o-Xylene	1.1	4.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109093-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I091207	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109093-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	I091204	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/12/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	79
Toluene	0.50	1.9	78
Ethyl Benzene	0.50	2.2	76
m,p-Xylene	0.50	2.2	89
o-Xylene	0.50	2.2	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130



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Page 1 of 1

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time:

Belinquished By: (Signature) Date/Tim:

• DRAFT •

Bellinzona-Bus (Stazione) - B + T

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Notes:-

Notes:
Preservation Type: NL
Nature: Ambient Air

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	CDL	922177289736754	EJ	-	30.9	Yes No None	0109093



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Sample Transportation Notice
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Page 1 of 1

Contact Person <u>MARGARET KELLY</u>	Project Info:			Turn Around Time:			
Company <u>Rogers & MACDONNELL</u>	P.O. # <u>21194-MED</u>	<input type="checkbox"/> Normal					
Address <u>2601 W. 22nd St.</u>	City <u>Dakota</u>	State <u>IL</u>	Zip <u>60523</u>	Project # <u>21194-L-07</u>	<input type="checkbox"/> Rush	Specify _____	
Phone <u>(630) 990-0300</u>	FAX <u>(630) 990-0301</u>	Project Name <u>Rogers Park</u>					
Collected By: Signature <u>[Signature]</u>							
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested		Canister Pressure / Vacuum		
			Initial	Final	Receipt		
2PM-N-SUM-07-A	9-7-01 10AM	BTEX	29	11.5			
2PM-S-SUM-07-B	9-7-01 10AM	BTEX Do Not Analyze	28	10.5			
2PM-E-SUM-07-C	9-7-01 10AM	BTEX Do Not Analyze	29.5	12			
2PM-W-SUM-07-D	9-7-01 10AM	BTEX	29	10.5			
Relinquished By: (Signature) Date/Time <u>[Signature]</u> 9-7-01 5:00PM	Received By: (Signature) Date/Time	Notes: PRESERVATION TYPE: NR MATRIX: AMBIENT AIR					
Relinquished By: (Signature) Date/Time <u>[Signature]</u> 9-8-01 1002	Received By: (Signature) Date/Time						
Relinquished By: (Signature) Date/Time <u>[Signature]</u> 9-8-01 1002	Received By: (Signature) Date/Time						
Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp (C)	Condition	Custody Seals Intact?	Work Order #
	<u>ROBERT</u>	<u>83-2702-50761859</u>	<u>HT</u>	<u>-5</u>	<u>soot</u>	<u>Yes</u> <u>No</u> <u>None</u>	<u>0109093</u>



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0109205

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/17/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/24/01		

FRACTION #	NAME	TEST	RECEIPT VAC/PRES.
01A	RPM-N-SUM-09-10-01	TO-14	9.5 "Hg
02A	RPM-S-SUM-09-10-01	TO-14	9.5 "Hg
03A	RPM-E-SUM-09-10-01	TO-14	9.0 "Hg
04A	RPM-W-SUM-09-10-01	TO-14	9.5 "Hg
05A	Lab Blank	TO-14	NA
05B	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA
06B	LCS	TO-14	NA

CERTIFIED BY:

DATE: 09/24/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0109205

Four 6 Liter Summa Canister samples were received on September 17, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-10-01

ID#: 0109205-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091719	Date of Collection:	9/10/01
Dil. Factor:	1.96	Date of Analysis:	9/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (μ G/m ³)	Amount (ppbv)	Amount (μ G/m ³)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.4	5.4
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-10-01

ID#: 0109205-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091720	Date of Collection:	9/10/01
Dil. Factor:	1.96	Date of Analysis:	9/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.1	4.1
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-10-01

ID#: 0109205-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091809	Date of Collection:	9/10/01
Dil. Factor:	1.91	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	1.0	3.9
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	115	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-10-01

ID#: 0109205-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091810	Date of Collection:	9/10/01
Dil. Factor:	1.96	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.2	4.6
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	113	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109205-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091705	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	9/17/01	
Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	92	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109205-05B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091808	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	117	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109205-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091703	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	95
Toluene	0.50	1.9	100
Ethyl Benzene	0.50	2.2	104
m,p-Xylene	0.50	2.2	112
o-Xylene	0.50	2.2	124

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109205-06B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091804	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	103
Ethyl Benzene	0.50	2.2	103
m,p-Xylene	0.50	2.2	115
o-Xylene	0.50	2.2	125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130



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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Page 1 of 1

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

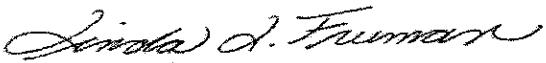
WORK ORDER #: 0109163

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/14/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/21/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	RPM-N-SUM-09-11-01	TO-14	9.5 "Hg
02A	RPM-W-SUM-09-11-01	TO-14	10.0 "Hg
03A	Lab Blank	TO-14	NA
03B	Lab Blank	TO-14	NA
04A	LCS	TO-14	NA
04B	LCS	TO-14	NA

CERTIFIED BY:



DATE: 09/21/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0109163

Two 6 Liter Summa Canister samples were received on September 14, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-11-01

ID#: 0109163-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g091811	Date of Collection:	9/11/01
Dil. Factor:	1.96	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	3.0	11
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	2.4	11
o-Xylene	0.98	4.3	1.3	5.6

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-11-01

ID#: 0109163-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g091726	Date of Collection:	9/11/01
Dil. Factor:	2.01	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.6	10
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109163-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g091708	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109163-03B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g091805	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109163-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g091706	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/17/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	87
Toluene	0.50	1.9	97
Ethyl Benzene	0.50	2.2	93
m,p-Xylene	0.50	2.2	99
o-Xylene	0.50	2.2	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109163-04B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g091803	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	95
Toluene	0.50	1.9	104
Ethyl Benzene	0.50	2.2	100
m,p-Xylene	0.50	2.2	100
o-Xylene	0.50	2.2	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	99	70-130



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Page _____ of _____

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Received By: (Signature) Date/Time:

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Background Information

BELIEVINGHISHED BY: (Signature) Date/Time:

Reaction of Bu_4N^+ with Li^+ , Pb^{2+} , Ti^{4+}

Notes:

es: PREOOLARIAN TYPE: MR
MATERIAL: AMBIENT AIR

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FED EX	827729736923	TBS	40-41.65	frzop	Yes No None	0109163

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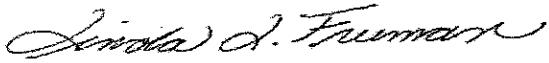
WORK ORDER #: 0109164

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/14/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/21/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>	<u>VAC/PRES.</u>
01A	RPM-N-SUM-09-12-01	TO-14	10.0 "Hg	
02A	RPM-W-SUM-09-12-01	TO-14	10.0 "Hg	
03A	Lab Blank	TO-14	NA	
04A	LCS	TO-14	NA	

CERTIFIED BY:



DATE: 09/21/01

Laboratory Director

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0109164

Two 6 Liter Summa Canister samples were received on September 14, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-12-01

ID#: 0109164-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091811	Date of Collection:	9/12/01
Dil. Factor:	2.01	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.2	4.8
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	110	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-12-01

ID#: 0109164-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091812	Date of Collection:	9/12/01
Dil Factor:	2.01	Date of Analysis:	9/16/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.5	5.8
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	1.1	4.9
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109164-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091808	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	117	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109164-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r091804	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/18/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	103
Ethyl Benzene	0.50	2.2	103
m,p-Xylene	0.50	2.2	115
o-Xylene	0.50	2.2	125

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Contact Person <u>MARGARET KELLEY</u>	Project info:			Turn Around Time:			
Company <u>Burke & McDonald</u>	P.O. # <u>BURKE MCDONNELL</u>	<input checked="" type="checkbox"/> Normal					
Address <u>2601 W. 22nd St.</u>	City <u>DANBURY</u>	State <u>CT</u>	Zip <u>06823</u>	Project # <u>271941-407</u>	<input type="checkbox"/> Rush _____		
Phone <u>630-990-0300</u>	FAX <u>630-990-0301</u>	Project Name <u>Rogers Park</u>		Specify _____			
Collected By: Signature <u>Elaine J. Kelley</u>							
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum	Initial	Final	Receipt
	RPM-N-SUM-09-12-01	9-12-01/	BTEX	29.5	9.5		
	RPM-S-SUM-09-12-01	9-12-01/	BTEX - Do Not Analyze	28.6	9.5		
	RPM-E-SUM-09-12-01	9-12-01/	BTEX	30	10		
	RPM-W-SUM-09-12-01	9-12-01/	BTEX - Do Not Analyze	29.5	9.5		
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time		Notes: <i>RETRIBUTION TYPE: AIR MATRIX: AMBIENT AIR</i>			
<u>Elaine J. Kelley</u> 9-12-01 4:00pm							
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>ROBES</u>	<u>82772773612</u>	<u>THE</u>	<u>AMBIENT</u>	<u>FROZEN</u>	<u>Yes</u> <u>No</u> <u>/ None</u>	<u>0109164</u>

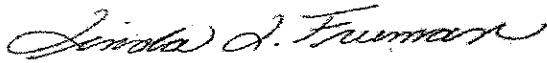
WORK ORDER #: 0109193

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/15/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/24/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	RPM-N-SUM-09-13-01	TO-14	10.0 "Hg
02A	RPM-S-SUM-09-13-01	TO-14	7.0 "Hg
03A	RPM-E-SUM-09-13-01	TO-14	10.0 "Hg
04A	RPM-W-SUM-09-13-01	TO-14	10.0 "Hg
05A	RPM-S-SUM-09-14-01	TO-14	11.0 "Hg
06A	RPM-W-SUM-09-14-01	TO-14	9.0 "Hg
07A	Lab Blank	TO-14	NA
07B	Lab Blank	TO-14	NA
08A	LCS	TO-14	NA
08B	LCS	TO-14	NA

CERTIFIED BY:



DATE: 09/24/01

Laboratory Director

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0109193

Six 6 Liter Summa Canister samples were received on September 15, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-13-01

ID#: 0109193-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q092407	Date of Collection:	9/13/01
Dil. Factor:	2.01	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	2.0	7.5
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	85	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-13-01

ID#: 0109193-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	a092408	Date of Collection:	9/13/01
Dil. Factor:	1.75	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.88	2.8	Not Detected	Not Detected
Toluene	0.88	3.4	4.9	19
Ethyl Benzene	0.88	3.9	Not Detected	Not Detected
m,p-Xylene	0.88	3.9	Not Detected	Not Detected
o-Xylene	0.88	3.9	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	86	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-13-01

ID#: 0109193-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	F092409	Date of Collection:	9/13/01
Dil. Factor:	2.01	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-13-01

ID#: 0109193-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q092409	Date of Collection:	9/13/01
Dil. Factor:	2.01	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	87	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-14-01

ID#: 0109193-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092410	Date of Collection:	9/14/01
Dil. Factor:	2.12	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	5.2	20
Ethyl Benzene	1.1	4.7	6.3	28
m,p-Xylene	1.1	4.7	25	110
o-Xylene	1.1	4.7	11	49

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-14-01

ID#: 0109193-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q092410	Date of Collection:	9/14/01
Dil. Factor:	1.91	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit ($\mu\text{g}/\text{m}^3$)	Amount (ppbv)	Amount ($\mu\text{g}/\text{m}^3$)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	4.8	19
Ethyl Benzene	0.96	4.2	6.7	30
m,p-Xylene	0.96	4.2	26	120
o-Xylene	0.96	4.2	13	58

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109193-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	q092405	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	86	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109193-07B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092408	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109193-08A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c092403	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	100
Toluene	0.50	1.9	106
Ethyl Benzene	0.50	2.2	109
m,p-Xylene	0.50	2.2	109
o-Xylene	0.50	2.2	123

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109193-08B

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092406	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/24/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	113
Toluene	0.50	1.9	120
Ethyl Benzene	0.50	2.2	116
m,p-Xylene	0.50	2.2	123
o-Xylene	0.50	2.2	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130



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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

Page 1 of 1

Contact Person Company Address Phone	MARGARET KELLEY BENSON & McDONNELL 2601 W. 22nd ST. 630-990-0300	Project info: P.O. # Project # Project Name	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify				
Collected By: Signature	<i>Eddy L. Hall</i>	8/9/01					
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum			
	BPM-N-SUM-09-13-01	9-13-01	BTEX	Initial Final Receipt			
	BPM-S-SUM-09-13-01	9-13-01	BTEX	29.5 10			
	BPM-E-SUM-09-13-01	9-13-01	BTEX	28.5 9			
	BPM-W-SUM-09-13-01	9-13-01	BTEX	30 11			
				29.5 10			
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time		Notes: PRESERVATION TYPE: NR MATRIX: AMBIENT AIR				
<i>Eddy L. Hall</i>	9-13-01 4:00pm						
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<i>GMA</i>	527726736825	65	65	<i>good</i>	Yes No None	0109193



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CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Relinquished By: (Signature) Date/Time <i>John F. Stalff</i>	Received By: (Signature) Date/Time <i>7-14-01 14:00 hrs</i>
Relinquished By: (Signature) Date/Time <i>C. W. H.</i>	Received By: (Signature) Date/Time <i>7-15-01 103</i>
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time

Notes: PREPARATION AND TYPE! AIR
ADATEX: IMMIGRANT AMZ

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	Endex	827774736875	EJ		Slight	Yes No <input checked="" type="checkbox"/> None	0109193

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

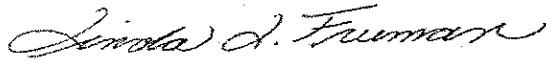
WORK ORDER #: 0109294

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers' Park Main
DATE RECEIVED:	9/21/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/28/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-09-19-01	TO-14	9.5 "Hg
02A	RPM-S-SUM-09-19-01	TO-14	9.5 "Hg
03A	RPM-E-SUM-09-19-01	TO-14	9.5 "Hg
04A	RPM-W-SUM-09-19-01	TO-14	9.5 "Hg
05A	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 09/28/01

Laboratory Director

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Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567, LA - AI 30763

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LABORATORY NARRATIVE

TO-14

Workorder# 0109294

Four 6 Liter Summa Canister samples were received on September 21, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-19-01

ID#: 0109294-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092517	Date of Collection:	9/19/01
Dil. Factor:	1.96	Date of Analysis:	9/25/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.3	5.2
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	85	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-19-01

ID#: 0109294-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092518	Date of Collection:	9/19/01
Dil Factor:	1.96	Date of Analysis:	9/25/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.2	4.5
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	87	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-19-01

ID#: 0109294-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092519	Date of Collection:	9/19/01
Dil. Factor:	1.96	Date of Analysis:	9/25/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.3	4.8
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	126	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	86	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-19-01

ID#: 0109294-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092520	Date of Collection:	9/19/01
Dil. Factor:	1.96	Date of Analysis:	9/25/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.98	3.2	Not Detected	Not Detected
Toluene	0.98	3.8	1.3	4.9
Ethyl Benzene	0.98	4.3	Not Detected	Not Detected
m,p-Xylene	0.98	4.3	Not Detected	Not Detected
o-Xylene	0.98	4.3	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	128	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	86	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109294-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092511	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/25/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	86	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109294-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r092506	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/25/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	110
Toluene	0.50	1.9	118
Ethyl Benzene	0.50	2.2	116
m,p-Xylene	0.50	2.2	118
o-Xylene	0.50	2.2	127

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130



CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Contact Person <u>MARGARET KELLY</u>	Project Info:			
Company <u>DANIELS MC DANIEL</u>	P.O. # <u>ENV-ENVIRO</u>	Turn Around Time:		
Address <u>260 W. 22nd St.</u>	City <u>Danbury</u>	<input checked="" type="checkbox"/> Normal		
Phone <u>630-990-0300</u>	State <u>IL</u>	<input type="checkbox"/> Rush	Specify _____	
FAX <u>630-990-0301</u>	Zip <u>60525</u>	<i>CP 9/22/01</i>		
Collected By: Signature <u>Lorraine L. Kelly</u>	Project Name <u>DANIELS MANU</u>			
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum
	PPM-N-SUM-09-19-01	9-19-01 / 17 hrs	BTEX	29
	PPM-S-SUM-09-19-01	9-19-01 /	BTEX	28
	PPM-F-SUM-09-19-01	9-19-01 /	BTEX	29.5
	PPM-W-SUM-09-19-01	9-19-01 /	BTEX	29
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time			Notes: <i>PRESERVATION TYPE: NR. MATRIX: AMBIENT AIR.</i>
<u>Lorraine L. Kelly 9-19-01 1005</u>				
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time			
<u>Lorraine L. Kelly 9-21-01 1005</u>				
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time			

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
<u>Godfrey</u>	<u>822972973687</u>	<u>605</u>		<u>Good</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	<u>0109294</u>
Lab Use Only						

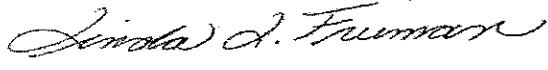
WORK ORDER #: 0109332

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/22/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	9/28/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC/PRES.</u>
01A	RPM-N-SUM-09-20-01	TO-14	10.0 "Hg
02A	RPM-S-SUM-09-20-01	TO-14	10.0 "Hg
03A	RPM-E-SUM-09-20-01	TO-14	10.0 "Hg
04A	RPM-N-SUM-09-21-01	TO-14	11.5 "Hg
05A	RPM-S-SUM-09-21-01	TO-14	11.5 "Hg
06A	RPM-E-SUM-09-21-01	TO-14	11.0 "Hg
07A	RPM-W-SUM-09-21-01	TO-14	11.5 "Hg
07AA	RPM-W-SUM-09-21-01 Duplicate	TO-14	11.5 "Hg
08A	Lab Blank	TO-14	NA
09A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 09/28/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0109332

Seven 6 Liter Summa Canister samples were received on September 22, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-20-01

ID#: 0109332-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092722	Date of Collection:	9/20/01
Dil. Factor:	2.01	Date of Analysis:	9/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-20-01

ID#: 0109332-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092723	Date of Collection:	9/20/01
Dil. Factor:	2.01	Date of Analysis:	9/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	1.0	4.0
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-20-01

ID#: 0109332-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092724	Date of Collection:	9/20/01
Dil. Factor:	2.01	Date of Analysis:	9/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.0	3.3	Not Detected	Not Detected
Toluene	1.0	3.8	Not Detected	Not Detected
Ethyl Benzene	1.0	4.4	Not Detected	Not Detected
m,p-Xylene	1.0	4.4	Not Detected	Not Detected
o-Xylene	1.0	4.4	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-21-01

ID#: 0109332-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092725	Date of Collection:	9/21/01
Dil. Factor:	2.17	Date of Analysis:	9/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit ($\mu\text{g}/\text{m}^3$)	Amount (ppbv)	Amount ($\mu\text{g}/\text{m}^3$)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-21-01

ID#: 0109332-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092726	Date of Collection:	9/21/01
Dil. Factor:	2.17	Date of Analysis:	9/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-21-01

ID#: 0109332-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092727	Date of Collection:	9/21/01
Dil. Factor:	2.12	Date of Analysis:	9/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.4	Not Detected	Not Detected
Toluene	1.1	4.0	1.1	4.2
Ethyl Benzene	1.1	4.7	Not Detected	Not Detected
m,p-Xylene	1.1	4.7	Not Detected	Not Detected
o-Xylene	1.1	4.7	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-21-01

ID#: 0109332-07A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092728	Date of Collection:	9/21/01
Dil. Factor:	2.17	Date of Analysis:	9/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	98	70-130

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SAMPLE NAME: RPM-W-SUM-09-21-01 Duplicate

ID#: 0109332-07AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092729	Date of Collection:	9/21/01
Dil. Factor:	2.17	Date of Analysis:	9/28/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	1.1	3.5	Not Detected	Not Detected
Toluene	1.1	4.2	Not Detected	Not Detected
Ethyl Benzene	1.1	4.8	Not Detected	Not Detected
m,p-Xylene	1.1	4.8	Not Detected	Not Detected
o-Xylene	1.1	4.8	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	99	70-130

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SAMPLE NAME: Lab Blank

ID#: 0109332-08A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092709	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit ($\mu\text{G}/\text{m}^3$)	Amount (ppbv)	Amount ($\mu\text{G}/\text{m}^3$)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

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SAMPLE NAME: LCS

ID#: 0109332-09A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g092706a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/27/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	94
Toluene	0.50	1.9	98
Ethyl Benzene	0.50	2.2	100
m,p-Xylene	0.50	2.2	99
o-Xylene	0.50	2.2	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	97	70-130



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CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Contact Person <u>MARGARET Loring</u> Company <u>EDWARDS & MC DONALD</u> Address <u>2601 W. 22nd St.</u> City <u>OAK BROOK</u> State <u>IL</u> Zip <u>60523</u> Phone <u>(630) 992-0200</u> FAX <u>(630) 992-0201</u> Collected By: Signature <u>C. Loring</u>				Project Info: P.O. # <u>EDM 8410</u> Project # <u>27194-4.07</u> Project Name <u>Rosary Park</u> <u>Altamont</u> <u>8/4/2001</u>		Turn Around Time: <input type="checkbox"/> Normal <input type="checkbox"/> Rush _____ Specify _____		
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested			Canister Pressure / Vacuum		
						Initial	Final	Receipt
	RPM-S-SUM-07-20-01	9-20-01 9:45AM	STEX			29.5	10	
	RPM-S-SUM-07-20-01	9-20-01 1	STEX			29.5	9	
	RPM-S-SUM-07-20-01	9-20-01 1	STEX			30	11	
	RPM-W-SUM-07-20-01	9-20-01 1	STEX Do NOT Analyze			29	10	
Relinquished By: (Signature) Date/Time <u>Margaret Loring</u> 9-20-01 4:00PM			Received By: (Signature) Date/Time <u>John</u> 9-20-01 4:00PM			Notes: Preparation Type: AIR Matrix: Ambient Air		
Relinquished By: (Signature) Date/Time <u>John</u> 9-20-01 4:00PM			Received By: (Signature) Date/Time <u>John</u> 9-20-01 4:00PM					
Relinquished By: (Signature) Date/Time <u>John</u> 9-20-01 4:00PM			Received By: (Signature) Date/Time <u>John</u> 9-20-01 4:00PM					
Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seals Intact?		Work Order #
	<u>John</u>	<u>22917-2993-6866</u>	<u>John</u>	<u>-</u>	<u>good</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> None <u>0109332</u>



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Page 1 of 1

Contact Person Margaret Keay
 Company Brandt McDonald
 Address 2001 W. 22nd St. City Oakland State CA Zip 94612
 Phone (510) 981-0280 FAX (510) 981-0281

Collected By: Signature Stephanie Haff

Project info:

P.O. # Brandt McDonald
 Project # 27941-4.0.7
 Project Name Boggs Park

Turn Around Time:

Normal
 Rush _____
 Specify _____

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
	2PM-N-Sun-09-21-01	9-21-01/8:00am	RTDX	29	11	
	2PM-S-Sun-09-21-01	9-21-01/11:00am	RTDX	23.5	10	
	2PM-T-Sun-09-21-01	9-21-01/1	RTDX	29.5	11.5	
	2PM-W-Sun-09-21-01	9-21-01/1	RTDX	29	11	

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes:

Preservation type: N/A
 Matrix: ambient air

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>Brandt</u>	<u>2001 W. 22nd St., 94612</u>	<u>SAF</u>	<u>20-30</u>	<u>good</u>	<u>Yes</u> <u>No</u> <u>None</u>	<u>0109332</u>

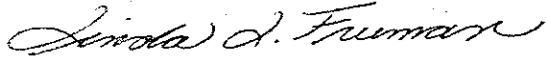
WORK ORDER #: 0109387

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	27194-4.07
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/26/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	10/3/01		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	RPM-S-SUM-09-24-01	TO-14	6.5 "Hg
02A	RPM-E-SUM-09-24-01	TO-14	8.0 "Hg
02AA	RPM-E-SUM-09-24-01 Duplicate	TO-14	8.0 "Hg
03A	Lab Blank	TO-14	NA
04A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 10/03/01

Laboratory Director

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LABORATORY NARRATIVE

TO-14

Burns & McDonnell

Workorder# 0109387

Two 6 Liter Summa Canister samples were received on September 26, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

Requirement	TO-14	ATL Modifications
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

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SAMPLE NAME: RPM-S-SUM-09-24-01

ID#: 0109387-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100112	Date of Collection:	9/24/01
Dil. Factor:	1.71	Date of Analysis:	10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.86	2.8	Not Detected	Not Detected
Toluene	0.86	3.3	Not Detected	Not Detected
Ethyl Benzene	0.86	3.8	Not Detected	Not Detected
m,p-Xylene	0.86	3.8	Not Detected	Not Detected
o-Xylene	0.86	3.8	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-24-01

ID#: 0109387-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100113	Date of Collection:	9/24/01
Dil. Factor:	1.83	Date of Analysis:	10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-24-01 Duplicate

ID#: 0109387-02AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100114	Date of Collection:	9/24/01
Dil. Factor:	1.83	Date of Analysis:	10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.92	3.0	Not Detected	Not Detected
Toluene	0.92	3.5	Not Detected	Not Detected
Ethyl Benzene	0.92	4.0	Not Detected	Not Detected
m,p-Xylene	0.92	4.0	Not Detected	Not Detected
o-Xylene	0.92	4.0	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109387-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100109	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109387-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100106	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	97
Toluene	0.50	1.9	98
Ethyl Benzene	0.50	2.2	98
m,p-Xylene	0.50	2.2	98
o-Xylene	0.50	2.2	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130



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Sample Transportation Note

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Page 1 of 1

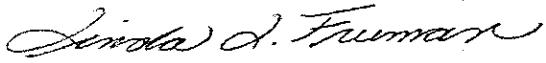
Contact Person Company Address Phone	MARGARET Kelley Borenus & McDonnell 2601 W. 22 nd ST. 630-990-0300	Project info: P.O. # Borenus & McDonnell Project # 27194-4.07 Project Name Rogers Park Matrix	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify				
Collected By: Signature	M 9-26-01						
Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt	
OIA	RPM-N-Sum-09-24-01	9-24-01 9:51AM	BTEX - Do Not Analyze	29.5	8.5	6.5" Hg	
OIA	RPM-E-Sum-09-24-01	9-24-01	BTEX	28.5	7.5		
OIA	RPM-E-Sum-09-24-01	9-24-01	BTEX	30	9.5	8.0" Hg	
	RPM-W-Sum-09-24-01	9-24-01	BTEX - Do Not Analyze	29.5	8.5		
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time		Notes:				
<i>Lentz M. Ralph</i>	9-24-01 / 4:30pm		PRESERVATION TYPE: NR MATRIX: AMBIENT AIR				
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time						
Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	F50EP	827729736761	TAS	AMBIENT	GOOD	Yes No <input type="radio"/> None	0109387

WORK ORDER #: 0109433**Work Order Summary**

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/27/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	10/4/01		

FRACTION #	NAME	TEST	RECEIPT VAC/PRES.
01A	RPM-S-SUM-09-25-01	TO-14	8.5 "Hg
01AA	RPM-S-SUM-09-25-01 Duplicate	TO-14	8.5 "Hg
02A	RPM-E-SUM-09-25-01	TO-14	8.5 "Hg
03A	Lab Blank	TO-14	NA
04A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 10/04/01

Laboratory Director

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0109433

Two 6 Liter Summa Canister samples were received on September 27, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-25-01

ID#: 0109433-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100115	Date of Collection:	9/25/01
Dil. Factor:	1.87	Date of Analysis:	10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	Not Detected	Not Detected
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-25-01 Duplicate

ID#: 0109433-01AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100116	Date of Collection:	9/25/01
Dil. Factor:	1.87	Date of Analysis:	10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	Not Detected	Not Detected
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-25-01

ID#: 0109433-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100117	Date of Collection:	9/25/01
Dil. Factor:	1.87	Date of Analysis:	10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	Not Detected	Not Detected
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109433-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100109	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109433-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100106	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/1/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	97
Toluene	0.50	1.9	98
Ethyl Benzene	0.50	2.2	98
m,p-Xylene	0.50	2.2	98
o-Xylene	0.50	2.2	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130



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Page 1 of 1

Contact Person	Margaret Kenny		
Company	Burns & McDonnell		
Address	2601 W. 22nd St.	City	OAK BROOK
Phone	630-990-0300	State	IL Zip 60523
FAX	630-990-0301		
Collected By: Signature	Eating J. Shulay		

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time:

[Signature] Relinquished By (Signature) Date _____

2307 ~~2307~~

Belinquished By: (Signature) Date/Time:

Received By (Signature) _____ Date (Time) _____

Notes

NOTES:
PRESERVATION TYPE: NR
MATRIX: Above Air

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	Y'all RX	1073407782	KFB	-	good	Yes No <input checked="" type="checkbox"/> None	0109433

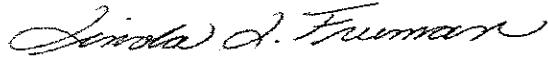
WORK ORDER #: 0109484

Work Order Summary

CLIENT:	Ms. Kim Nichols Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229	BILL TO:	Ms. Margaret Kelley Burns & McDonnell 2601 W. 22nd St. Oakbrook, IL 60523-1229
PHONE:	630-990-0300x226	P.O. #	Burns & McDonnell
FAX:	630-990-0301	PROJECT #	27194-4.07 Rogers Park Main
DATE RECEIVED:	9/29/01	CONTACT:	DeDe Dodge
DATE COMPLETED:	10/8/01		

FRACTION #	NAME	TEST	RECEIPT VAC/PRES.
01A	RPM-N-SUM-09-26-01	TO-14	9.0 "Hg
02A	RPM-S-SUM-09-26-01	TO-14	8.5 "Hg
03A	RPM-E-SUM-09-26-01	TO-14	9.0 "Hg
04A	RPM-W-SUM-09-26-01	TO-14	9.0 "Hg
05A	Lab Blank	TO-14	NA
06A	LCS	TO-14	NA

CERTIFIED BY:



DATE: 10/08/01

Laboratory Director

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LABORATORY NARRATIVE
TO-14
Burns & McDonnell
Workorder# 0109484

Four 6 Liter Summa Canister samples were received on September 28, 2001. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Initial calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

AIR TOXICS LTD.

SAMPLE NAME: RPM-N-SUM-09-26-01

ID#: 0109484-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100411	Date of Collection:	9/26/01
Dil. Factor:	1.91	Date of Analysis:	10/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-S-SUM-09-26-01

ID#: 0109484-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100412	Date of Collection:	9/26/01
Dil Factor:	1.87	Date of Analysis:	10/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.94	3.0	Not Detected	Not Detected
Toluene	0.94	3.6	Not Detected	Not Detected
Ethyl Benzene	0.94	4.1	Not Detected	Not Detected
m,p-Xylene	0.94	4.1	Not Detected	Not Detected
o-Xylene	0.94	4.1	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-E-SUM-09-26-01

ID#: 0109484-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100413	Date of Collection:	9/26/01
Dil. Factor:	1.91	Date of Analysis:	10/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: RPM-W-SUM-09-26-01

ID#: 0109484-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100414	Date of Collection:	9/26/01
Dil. Factor:	1.91	Date of Analysis:	10/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.96	3.1	Not Detected	Not Detected
Toluene	0.96	3.6	Not Detected	Not Detected
Ethyl Benzene	0.96	4.2	Not Detected	Not Detected
m,p-Xylene	0.96	4.2	Not Detected	Not Detected
o-Xylene	0.96	4.2	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0109484-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100405	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0109484-06A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	g100403	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/4/01

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Benzene	0.50	1.6	98
Toluene	0.50	1.9	98
Ethyl Benzene	0.50	2.2	99
m,p-Xylene	0.50	2.2	97
o-Xylene	0.50	2.2	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



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CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

Page 1 of 1

Contact Person MARGARET KELLEY
Company BARAKS & McBRIDE
Address 2001 N.W. 22nd St. City Oakland State IL Zip 60302
Phone (312) 930-0730 FAX (312) 930-0731

Collected By: Signature Collier J. Franklin

Project info:
P.O. # Brown's Mfg Company
Project # ET194-4.01
Project Name Brown's Pickle

Turn Around Time:

- Normal

Rush _____

Relinquished By: (Signature) / Date/Time

Received By: (Signature) Date/Time:

Belinguished By: (Signature) Date/Time:

Received By (Signature): Dale T. Johnson Date: 10-10-2013

BELIEVING IN GOD

John W. Bicknell *1870-1941*

Notes:

Notes:
PRESERVATION TYPE: AIR
MATERIAL: HUMECTANT

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
Lab Use Only	FedEx 827729136783	JZ	Ambient	Good	Yes No None	0109484

ERI Quality Assurance Cover Letter For VOC

(TASC)

The samples listed below are VOC samples analyzed by EPA standard method TO-15 for the BURNS AND MCDONNELL project. The report consists of one excel spreadsheet, Q0108C.xls. No unusual circumstances were encountered in the analysis of these samples.

Sample ID

**Q0108C
RPM-E-ERI-SUM
RPM-N-ERI-SUM
Field Void Samples**

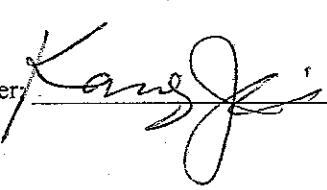
Quality Assurance Review Checklist

Table 1. QA/QC Check List

Test	Acceptance Criteria	QA Meets Criteria	QA Does Not Meet Criteria
Holding Times *	Analysis 30 days	X	
Initial Calibration *	RSD or RRF ≤ 30%.	X	
Calibration Verification *(PAMS / UAT / NBS) standards	70% to 130% recovery.	X	
GC/MS Tuning *	See Table 1 below	X	
Laboratory Blank	< MQL (3 time MDL)	X	<input type="checkbox"/>
Laboratory Duplicate	For sample Conc. > 2 time MDL. ±30% RPD	X	<input type="checkbox"/>
Report Delivery	within 40 days of Sample Date	X	

*Samples associated with QA not to meet acceptance criteria are not entered into the TASC database.

Notes

Data reviewed by: Tian-min Xie, ERI QA Officer  Date: 8/9/01

Quantitation Report

Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108D34.D
 Acq On : 16 Aug 01 5:45 am
 Sample : RPM-E-ERI-SUM
 Disc : 01204-01

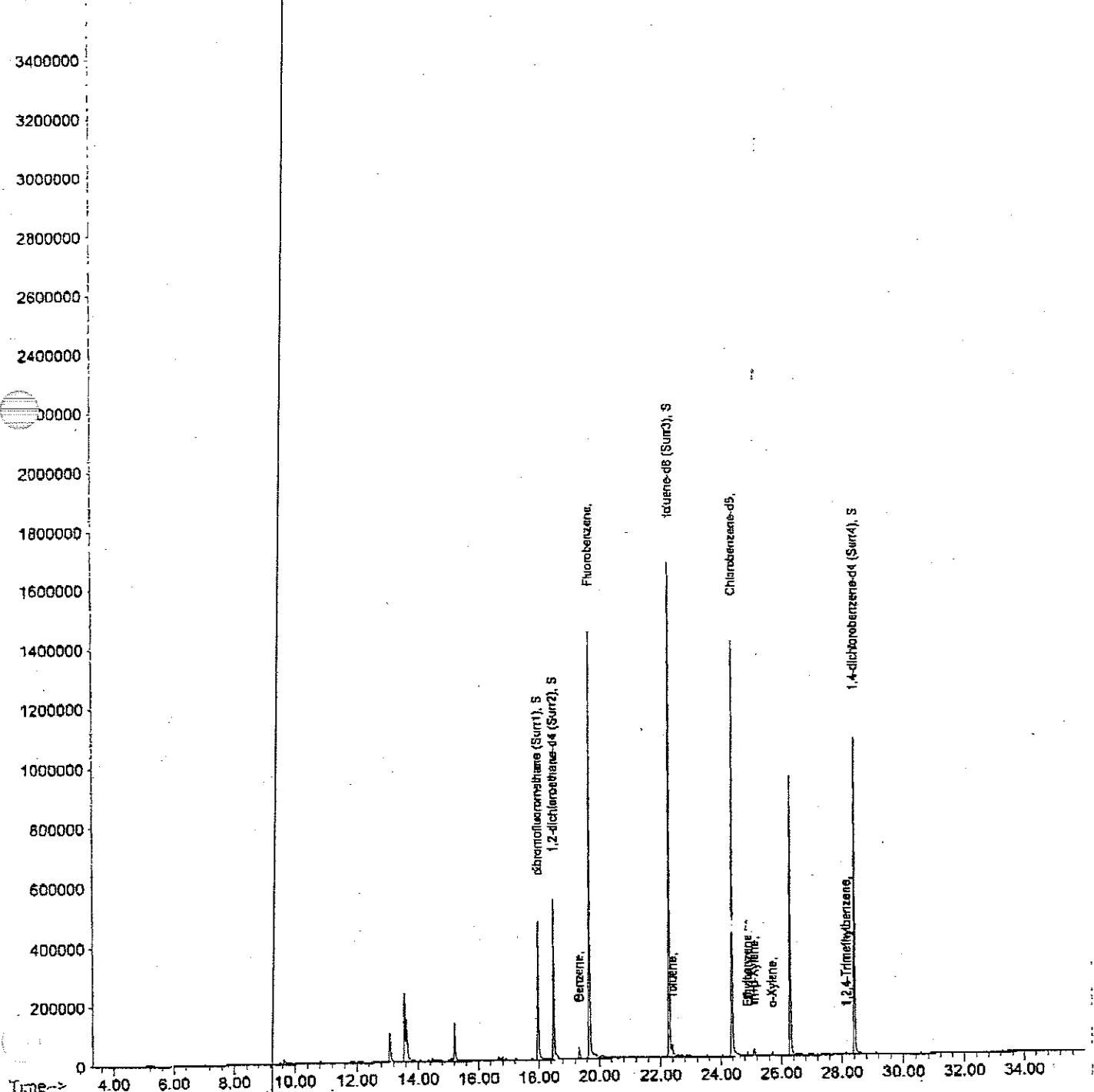
MS Integration Params: JKUM1.E
 Quant Time: Aug 16 10:26 19101

Vial: 13
 Operator:
 Inst : GC/MS Ins
 Multiplr: 1.00

Quand Results File: QU0108.RES

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 16 08:57:30 2001
 Response via : Initial Calibration

TIC: Q0108D34.D



UAT ANALYSIS RESULT (MSD)

FIELD ID:	RPM-E-ERI-SUM	ANAL. TIME:	08/16/01 05:45	
METHOD NAME	QU0108.M	SAMP. VOL(L):	0.12	
DATA FILE:	Q0108D34.D			

0.4
-4.8
17.8

CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDL(ppb)
00071-43-2	Benzene	78.11	0.47	12.39	3.88J	0.49	0.06
00108-88-3	Toluene	92.13	0.30	9.20	2.44J	0.49	0.06
00100-41-4	Ethylbenzene	106.16	0.10	3.70	0.85J	0.49	0.06
00108-38-3	m+p-Xylene	106.16	0.24	8.56	1.97J	0.49	0.06
00095-47-6	o-Xylene	106.16	0.11	3.76	0.87J	0.49	0.06

Surrogate Recovery							
CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL(ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.25	7.08	59.49	102.4%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	14.55	13.19	119.45	110.3%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.81	13.56	113.34	101.8%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	8.64	9.06	70.93	95.4%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Yongzhi Wang.

J: ESTIMATED VALUE *cm*

Sequence Name: C:\HPCHEM\1\SEQUENCE\Q0108C.S

Comment:

Operator:

Data Path: C:\HPCHEM\1\DATA\Q0108B\

Pre-Seq Cmd:

Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch
(X) Full Method (X) Inject Anyway
() Reprocessing Only () Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	Q0108C01	R2K03	BLK 400 ML
2	Sample	1	Q0108C02	R2K03	BLK 400 ML
3	Sample	3	Q0108C03	R2K03	UAT ST 100 ML
4	Sample	3	Q0108C04	R2K03	UAT ST 200 ML
5	Sample	3	Q0108C05	R2K03	UAT ST 400 ML
6	Sample	3	Q0108C06	R2K03	UAT ST 600 ML
7	Sample	3	Q0108C07	R2K03	UAT ST 1000 ML
8	Sample	4	Q0108C08	R2K03	NBS ST 400ML
9	Sample	5	Q0108C09	R2K03	SPL 1.5
10	Sample	6	Q0108C10	R2K03	SPL 4
11	Sample	6	Q0108C11	R2K03	SPL 4D
12	Sample	7	Q0108C12	R2K03	RPM-E-ERI-SUM
13	Sample	8	Q0108C13	R2K03	RPM-N-ERI-SUM
14	Sample	8	Q0108C14	R2K03	RPM-N-ERI-SUMD
15	Sample	9	Q0108C15	R2K03	42GNC49-0150CP
16	Sample	10	Q0108C16	R2K03	42GNC49-0151CS
17	Sample	11	Q0108C17	R2K03	42BRC45-0202A
18	Sample	12	Q0108C18	R2K03	42VTC21-0172A
19	Sample	12	Q0108C19	R2K03	42VTC21-0172AD
20	Sample	13	Q0108C20	R2K03	42VTC21-0173TB
21	Sample	14	Q0108C21	R2K03	071801-1S
22	Sample	15	Q0108C22	R2K03	071901-2S
23	Sample	16	Q0108C23	R2K03	072401-1S
24	Sample	16	Q0108C24	R2K03	072401-1SD
25	Sample	1	Q0108C25	R2K03	BLK 400ML
26	Sample	2	Q0108C26	R2K03	PAMS 400ML
27	Sample	4	Q0108C27	R2K03	NBS ST 400ML
28	Sample	99	STBF099	STBYF	STAND BY

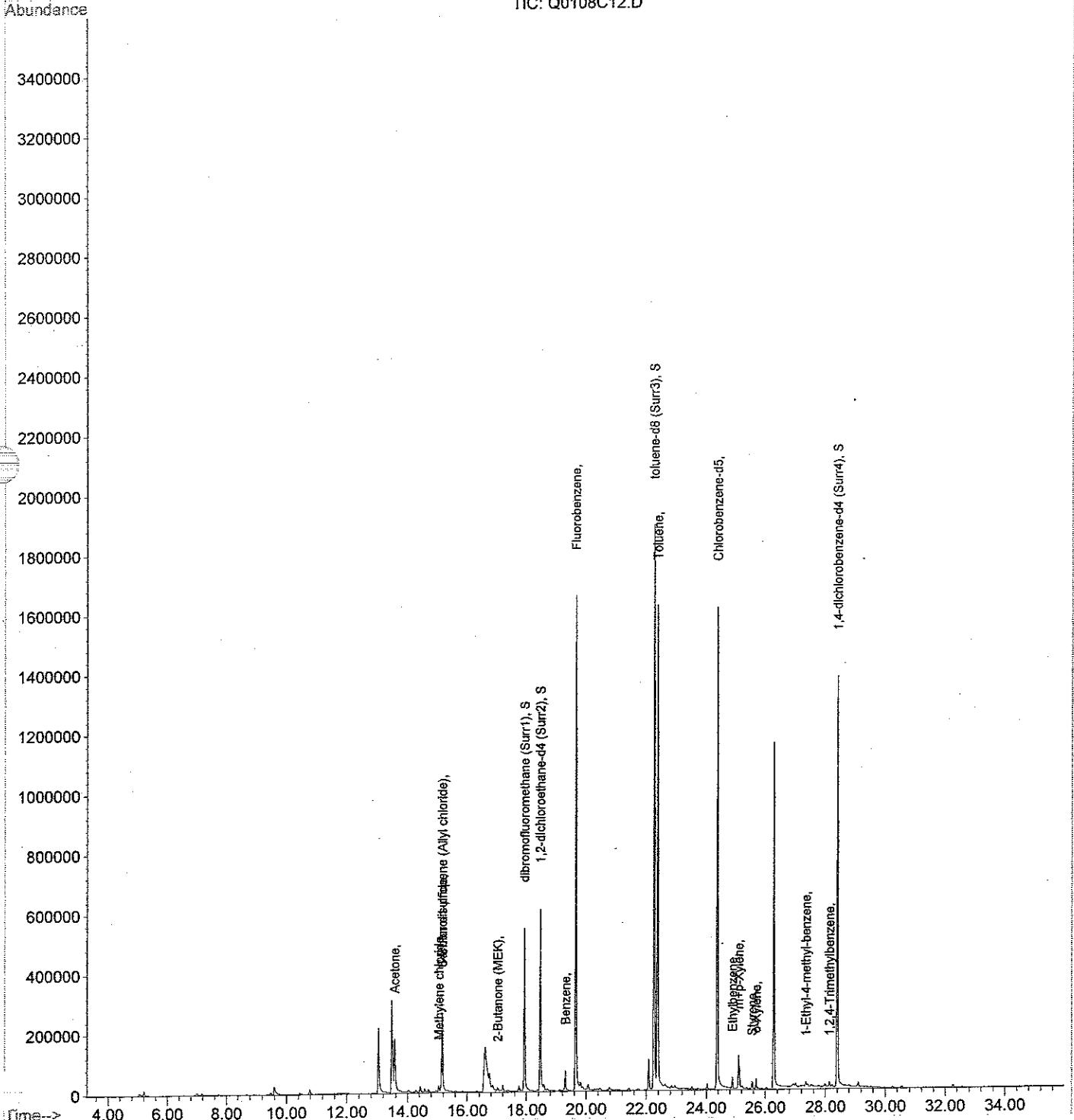
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 Acq On : 8 Aug 01 5:04 am
 Sample : RPM-E-ERI-SUM
 Misc : 01204-01
 MS Integration Params: JKUM1.E
 Quant Time: Aug 9 9:57 19101

Vial: 7
 Operator:
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: QU0108.RES

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 09 09:44:44 2001
 Response via : Initial Calibration

TC: Q0108C12.D



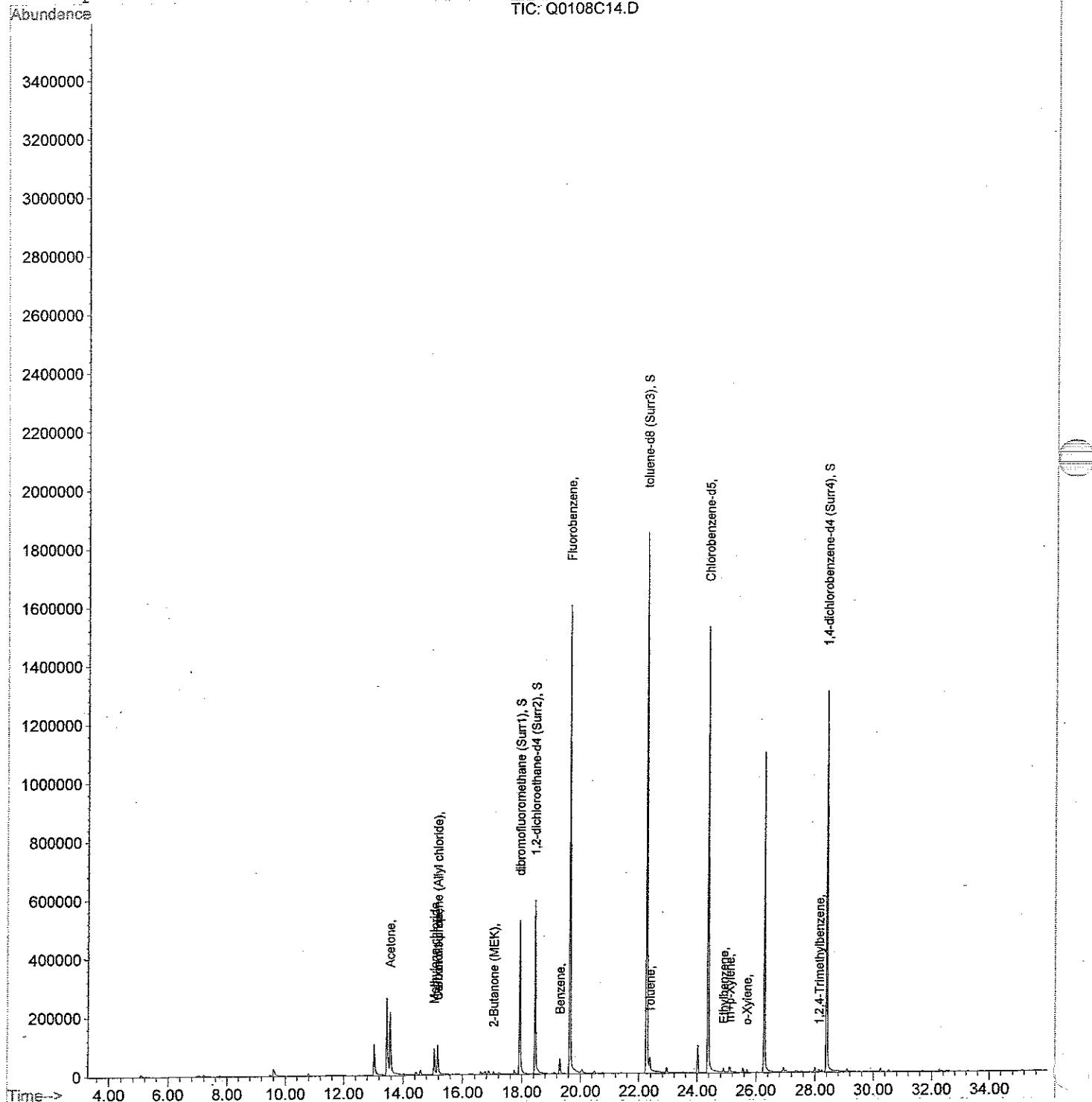
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 Sample : RPM-N-ERI-SUMD
 Misc : 01204-02D
 MS Integration Params: JKUM1.E
 Quant Time: Aug 9 9:57 19101

Vial: 8
 Operator:
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: QU0108.S

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 09 09:44:44 2001
 Response via : Initial Calibration

TIC: Q0108C14.D



Quantitation Report

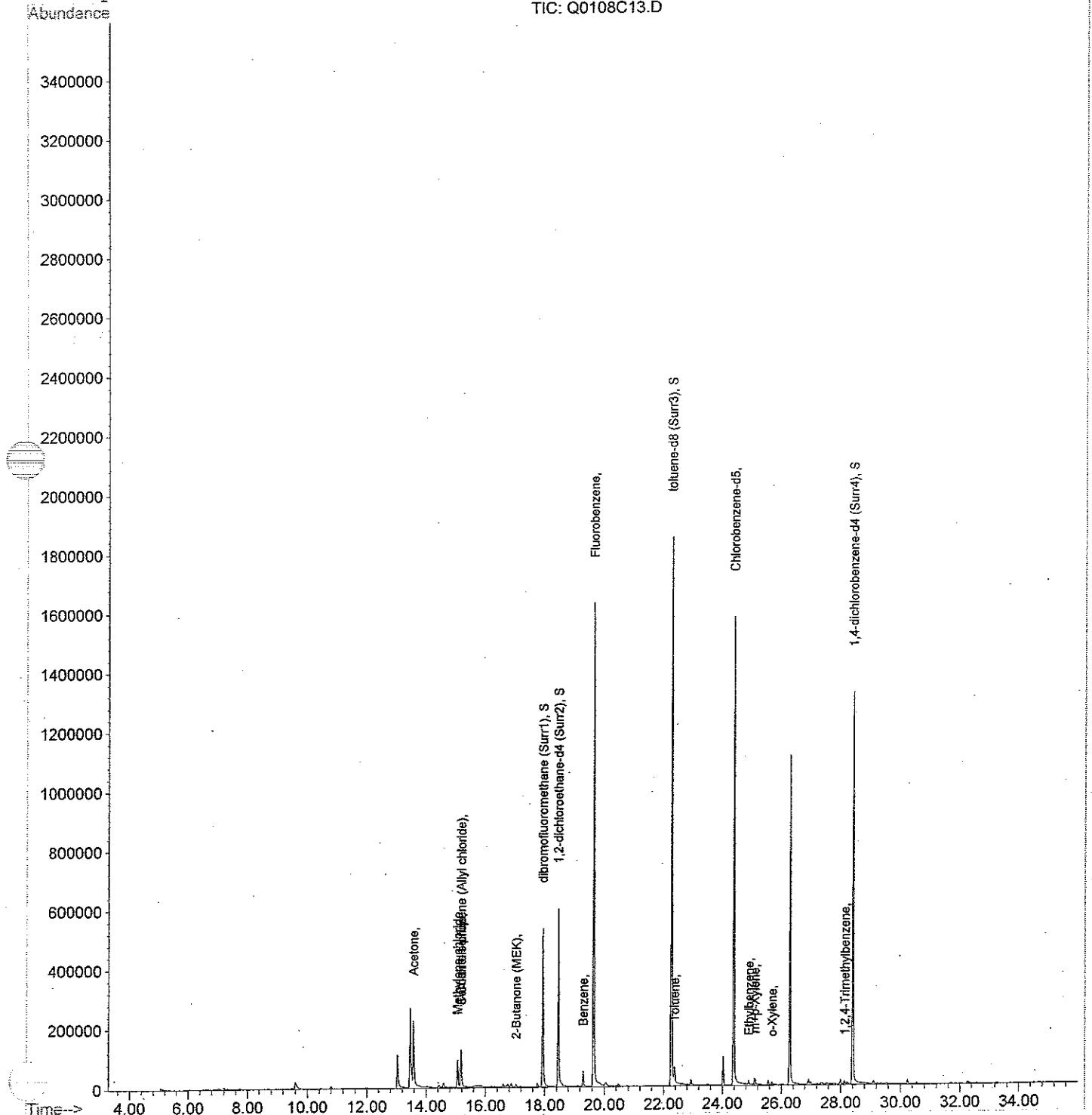
Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C13.D
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 Sample : RPM-N-ERI-SUM
 Misc : 01204-02
 MS Integration Params: JKUM1.E
 Quant Time: Aug 9 10:34 19101

Vial: 8
 Operator:
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: QU0108.RES

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 09 09:44:44 2001
 Response via : Initial Calibration

TIC: Q0108C13.D



UAT ANALYSIS RESULT (MSD)

FIELD ID:	RPM-E-ERI-SUM						0.4
METHOD NAME	QU0108.M	ANAL. TIME:	08/ 8/01 05:04				-4.8
DATA FILE:	q0108c12.d	SAMP. VOL(L):				0.12	17.8

CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL (ppb)	MDL (ppb)
00071-43-2	Benzene	78.11	0.72	18.84	5.90	0.49	0.06
00108-88-3	Toluene	92.13	13.37	413.56	109.75	0.49	0.06
00100-41-4	Ethylbenzene	106.16	0.27	9.58	2.21	0.49	0.06
00108-38-3	m+p-Xylene	106.16	1.05	37.39	8.61	0.49	0.06
0095-47-6	o-Xylene	106.16	0.26	9.24	2.13	0.49	0.06

Surrogate Recovery

CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL (ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.01	7.08	57.50	99.0%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.84	13.19	113.61	104.9%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.36	13.56	109.64	98.5%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	9.31	9.06	76.39	102.8%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Yongzhi Wang.

BFB

Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C02.D

Acq On : 7 Aug 01 8:55 pm

Sample : BLK 400 ML

Misc :

Vial: 1

Operator:

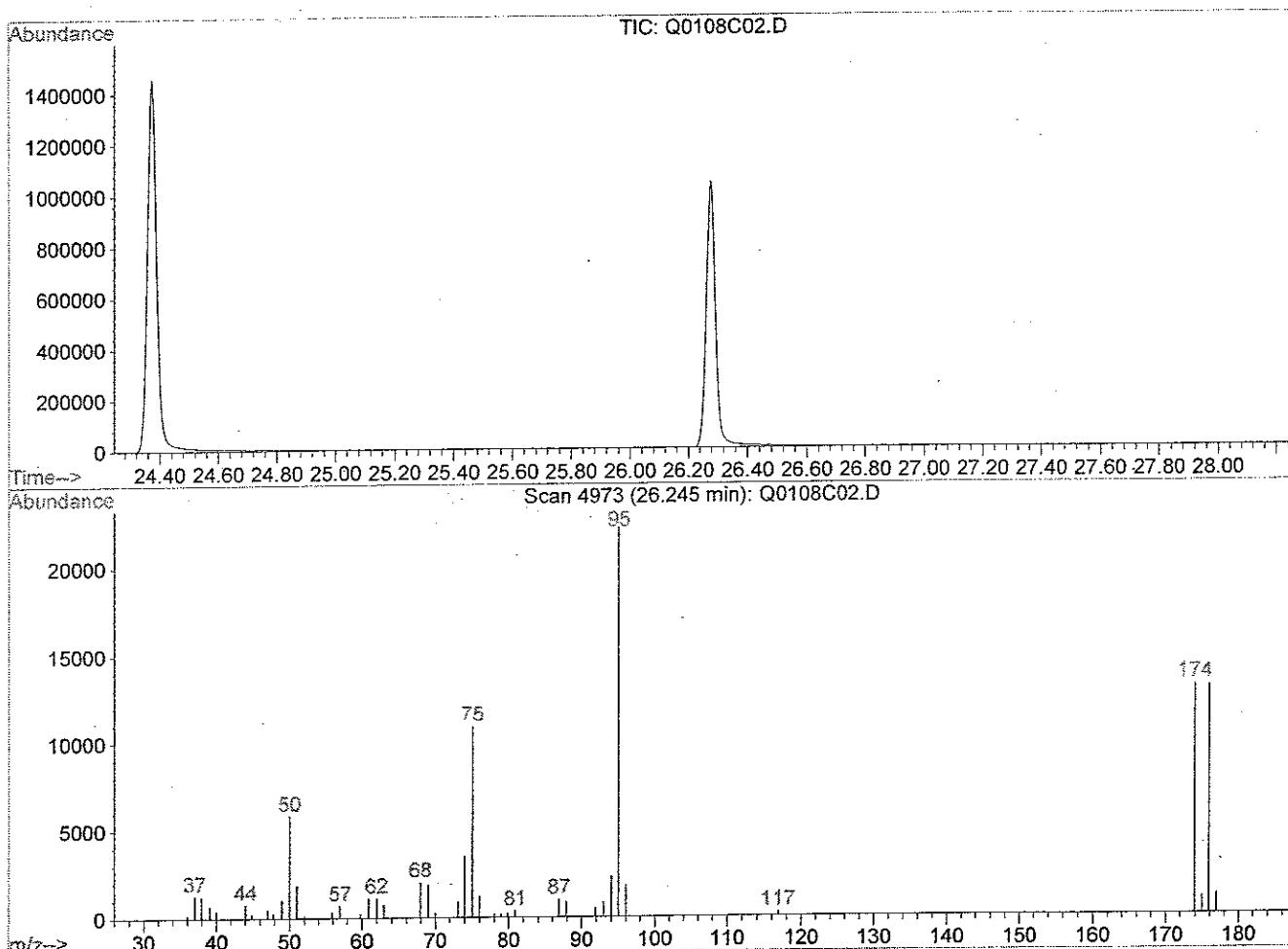
Inst : GC/MS Ins

Multiplr: 1.00

MS Integration Params: JKUM1.E

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)

Title : UAT Method (5. Points)



Spectrum Information: Scan 4973

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.4	5859	PASS
75	95	30	60	49.2	10924	PASS
95	95	100	100	100.0	22184	PASS
96	95	5	9	8.1	1790	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	59.1	13108	PASS
175	174	5	9	7.4	971	PASS
176	174	95	101	99.5	13046	PASS
177	176	5	9	8.6	1127	PASS

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 09 09:44:44 2001
 Response via : Initial Calibration

Calibration Files

100	=Q0108C03.D	200	=Q0108C04.D	400	=Q0108C05.D
600	=Q0108C06.D	1000	=Q0108C07.D		

Compound	100	200	400	600	1000	Avg	%RSD
----------	-----	-----	-----	-----	------	-----	------

		-----ISTD-----					
1)	Fluorobenzene						
2)	Dichlorodifluorometha	0.635	0.625	0.602	0.580	0.578	0.604
3)	Chloromethane	0.279	0.278	0.272	0.262	0.261	0.270
4)	1,2-Dichlorotetrafluoroethane	0.721	0.693	0.666	0.638	0.645	0.673
5)	Chloroethene	0.274	0.262	0.259	0.245	0.248	0.257
6)	Bromomethane	0.262	0.244	0.236	0.228	0.228	0.240
7)	Chloroethane	0.161	0.146	0.143	0.138	0.138	0.145
8)	Acetone	0.120	0.120	0.119	0.123	0.127	0.122
9)	Trichlorofluoromethane	0.538	0.502	0.488	0.505	0.506	0.508
10)	Acrylonitrile	0.145	0.164	0.159	0.164	0.182	0.163
11)	1,1-Dichloroethene	0.383	0.375	0.374	0.358	0.359	0.370
12)	Methylene chloride	0.351	0.336	0.324	0.313	0.311	0.327
13)	Carbon disulfide	0.982	1.011	0.846	0.763	0.729	0.866
14)	3-Chloro-1-propene (A)	0.854	0.879	0.736	0.663	0.634	0.753
15)	112-Trichloro-122-tri	0.504	0.480	0.465	0.453	0.452	0.471
16)	trans-1,2-Dichloroethane	0.364	0.358	0.317	0.327	0.323	0.338
	1,1-Dichloroethane	0.474	0.425	0.425	0.409	0.412	0.429
18)	MTBE	0.685	0.652	0.621	0.611	0.608	0.635
19)	2-Butanone (MEK)	0.555	0.561	0.531	0.572	0.559	0.556
20)	cis-1,2-Dichloroethene	0.342	0.303	0.309	0.298	0.302	0.311
21)	Chloroform	0.471	0.439	0.404	0.411	0.413	0.428
22) S	dibromofluoromethane	0.483	0.481	0.470	0.477	0.475	0.477
23)	tert-Butyl formate	0.201	0.184	0.180	0.188	0.195	0.190
24) S	1,2-dichloroethane-d4	0.268	0.282	0.266	0.266	0.269	0.270
25)	1,2-Dichloroethane	0.316	0.299	0.275	0.269	0.271	0.286
26)	1,1,1-Trichloroethane	0.463	0.434	0.414	0.400	0.411	0.424
27)	Benzene	0.912	0.766	0.699	0.685	0.670	0.746
28)	Carbon tetrachloride	0.395	0.380	0.368	0.363	0.366	0.375
29)	TAME	0.587	0.562	0.644	0.521	0.521	0.567
30)	1,2-Dichloropropane	0.296	0.277	0.266	0.261	0.258	0.272
31)	Bromodichloromethane	0.482	0.460	0.442	0.430	0.432	0.450
32)	Trichloroethene	0.363	0.340	0.338	0.327	0.320	0.337
33)	Methyl methacrylate	0.239	0.231	0.227	0.226	0.233	0.231
34)	cis-1,3-Dichloropropene	0.396	0.372	0.360	0.352	0.355	0.367
35)	MIBK	0.671	0.572	0.587	0.598	0.615	0.608
36)	trans-1,3-Dichloropropane	0.290	0.269	0.270	0.269	0.271	0.274
37)	1,1,2-Trichloroethane	0.299	0.274	0.265	0.265	0.264	0.273
38)	Chlorobenzene-d5						

(#) = Out of Range
 QU0108.M

Thu Aug 09 09:51:07 2001

Page 1

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 09 09:44:44 2001
 Response via : Initial Calibration

Calibration Files

100	=Q0108C03.D	200	=Q0108C04.D	400	=Q0108C05.D
600	=Q0108C06.D	1000	=Q0108C07.D		

	Compound	100	200	400	600	1000	Avg	%RSD
39)	S toluene-d8 (Surr3)	1.113	1.088	1.095	1.119	1.106	1.104	1.15
40)	Toluene	1.119	1.042	0.991	0.973	0.974	1.020	6.11
41)	Dibromochloromethane	0.550	0.522	0.520	0.510	0.524	0.525	2.82
42)	1,2-Dibromoethane	0.520	0.478	0.469	0.469	0.471	0.482	4.49
43)	Tetrachloroethene	0.484	0.461	0.447	0.440	0.447	0.456	3.81
44)	Chlorobenzene	0.802	0.762	0.731	0.738	0.736	0.754	3.93
45)	Ethylbenzene	1.318	1.229	1.197	1.186	1.206	1.227	4.33
46)	m+p-Xylene	1.046	0.979	0.963	0.958	0.961	0.982	3.78
47)	Bromoform	0.429	0.423	0.430	0.439	0.456	0.435	2.94
48)	Styrene	0.706	0.661	0.663	0.668	0.675	0.675	2.72
49)	o-Xylene	1.038	0.960	0.941	0.938	0.938	0.963	4.44
50)	1,1,2,2-Tetrachloroet	0.597	0.557	0.563	0.565	0.597	0.576	3.35
51)	1-Ethyl-4-methyl-benz	1.388	1.232	1.290	1.282	1.310	1.301	4.36
52)	1,3,5-Trimethylbenzen	1.175	1.065	1.078	1.096	1.111	1.105	3.88
53)	1,2,4-Trimethylbenzen	1.091	0.977	1.018	1.032	1.066	1.037	4.25
54)	chloromethylbenzene	0.429	0.414	0.490	0.555	0.618	0.501	17.14
55)	1,3-Dichlorobenzene	0.691	0.616	0.654	0.655	0.682	0.659	4.45
56)	S 1,4-dichlorobenzene-d	0.746	0.781	0.847	0.873	0.893	0.828	7.53
57)	1,4-Dichlorobenzene	0.685	0.636	0.644	0.672	0.690	0.665	3.64
58)	1,2-Dichlorobenzene	0.596	0.552	0.579	0.601	0.603	0.587	3.64
59)	1,2,4-Trichlorobenzen	0.181	0.180	0.207	0.210	0.188	0.193	7.51
60)	Hexachloro-1,3-butadi	0.262	0.241	0.284	0.296	0.260	0.269	7.93
61)	1,3-Butadiene	0.294	0.288	0.286	0.286	0.284	0.288	1.33

QUANTIFICATION REPORT

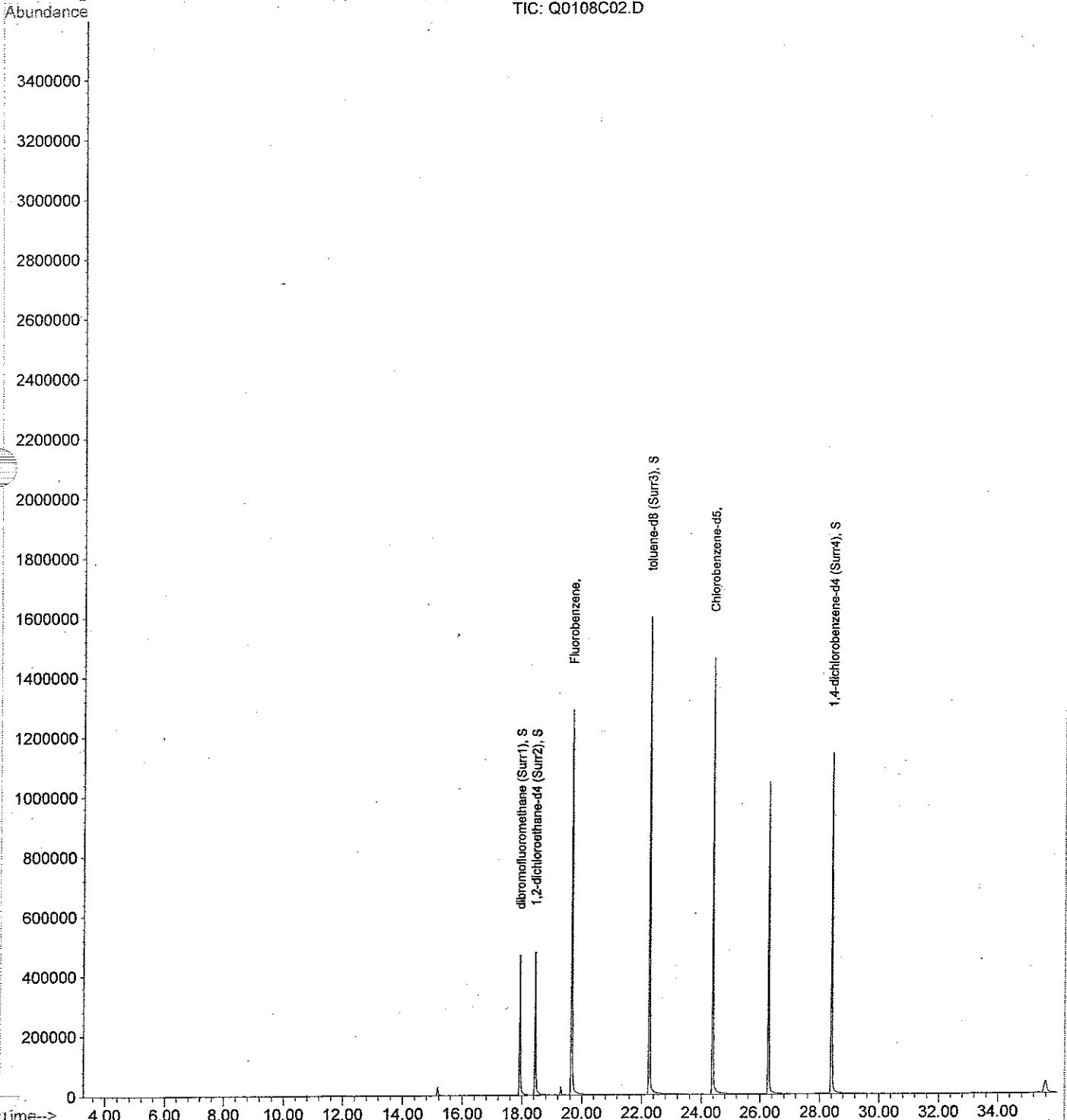
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 Sample : BLK 400 ML
 Misc :
 MS Integration Params: JKUM1.E
 Quant Time: Aug 9 10:07 19101

Vial: 1
 Operator:
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: QU0108.RES

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 09 09:44:44 2001
 Response via : Initial Calibration

TIC: Q0108C02.D



UAT ANALYSIS RESULT (MSD)

FIELD ID:	BLK 400 ML	ANAL. TIME:	08/ 7/01 20:55	0.4			
METHOD NAME	QU0108.M	SAMP. VOL(L):	0.40	14.7			
DATA FILE:	Q0108C02.D			14.7			
CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDL(ppb)
00071-43-2	Benzene	78.11	0.00	ND	ND	0.15	0.06
00108-88-3	Toluene	92.13	0.00	ND	ND	0.15	0.06
00100-41-4	Ethylbenzene	106.16	0.00	ND	ND	0.15	0.06
00108-38-3	m+p-Xylene	106.16	0.00	ND	ND	0.15	0.06
095-47-6	o-Xylene	106.16	0.00	ND	ND	0.15	0.06
Surrogate Recovery							
CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL(ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.51	7.08	18.78	106.1%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.51	13.19	33.78	102.4%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	12.26	13.56	30.64	90.4%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	8.50	9.06	21.26	93.9%	0.06

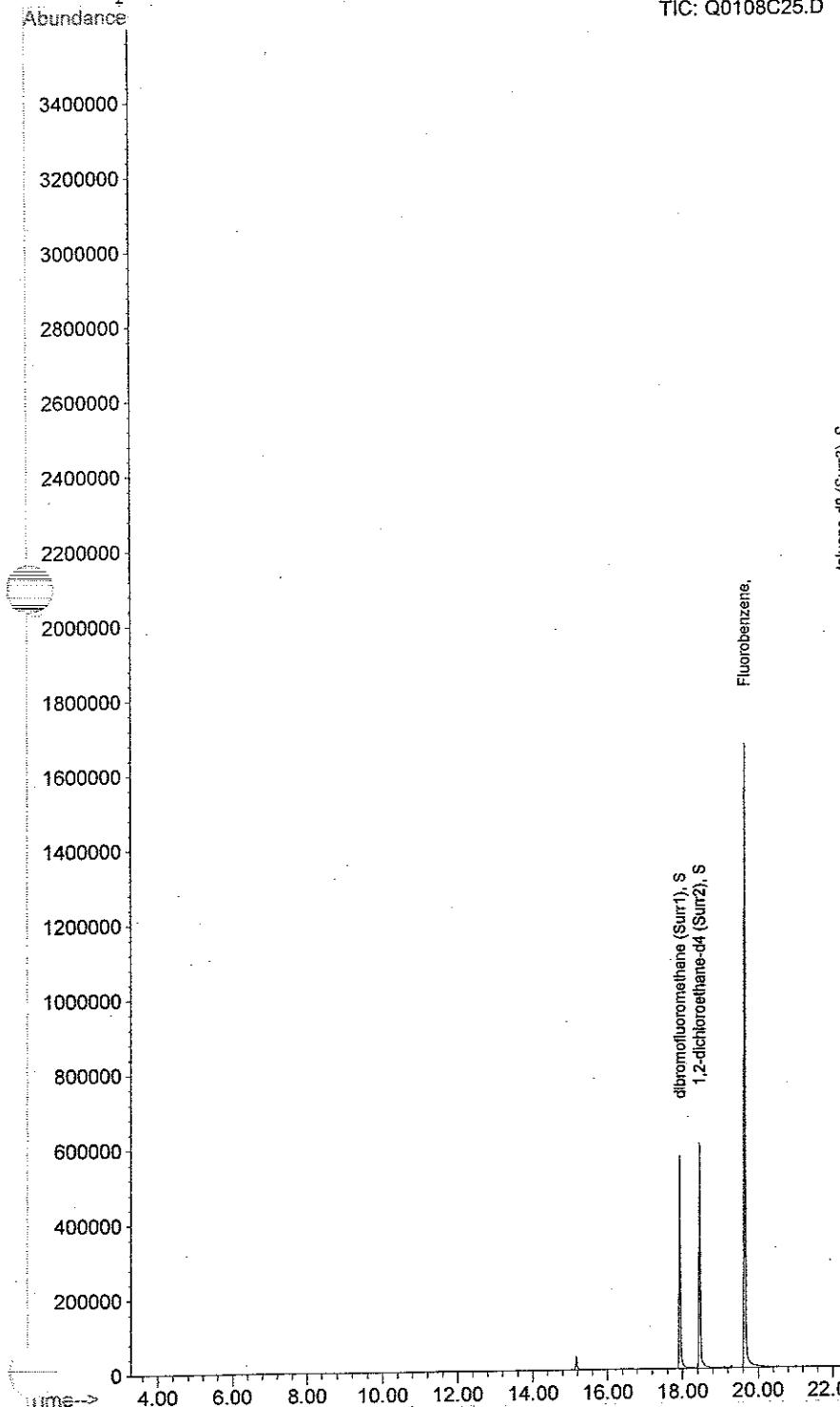
Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Yongzhi Wang.

Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C25.D
Acq On : 8 Aug 01 3:51 pm
Sample : BLK 400ML
Misc : 01101-12
MS Integration Params: JKUM1.E
Quant Time: Aug 9 10:32 19101

Vial: 1
Operator:
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: QU0108.RES

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
Title : UAT Method (5 Points)
Last Update : Thu Aug 09 09:44:44 2001
Response via : Initial Calibration



UAT ANALYSIS RESULT (MSD)

FIELD ID:	BLK 400ML	ANAL. TIME:	08 / 8/01 15:51	0.4
METHOD NAME	QU0108.M	SAMP. VOL (L):	0.40	14.7
DATA FILE:	q0108c25.d			14.7

CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL (ppb)	MDL (ppb)
00071-43-2	Benzene	78.11	0.00	ND	ND	0.15	0.06
00108-88-3	Toluene	92.13	0.00	ND	ND	0.15	0.06
00100-41-4	Ethylbenzene	106.16	0.00	ND	ND	0.15	0.06
00108-38-3	m+p-Xylene	106.16	0.00	ND	ND	0.15	0.06
0095-47-6	o-Xylene	106.16	0.00	ND	ND	0.15	0.06

Surrogate Recovery

CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL (ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.16	7.08	17.90	101.1%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.47	13.19	33.67	102.1%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.21	13.56	33.01	97.4%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	7.41	9.06	18.53	81.9%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Yongzhi Wang.

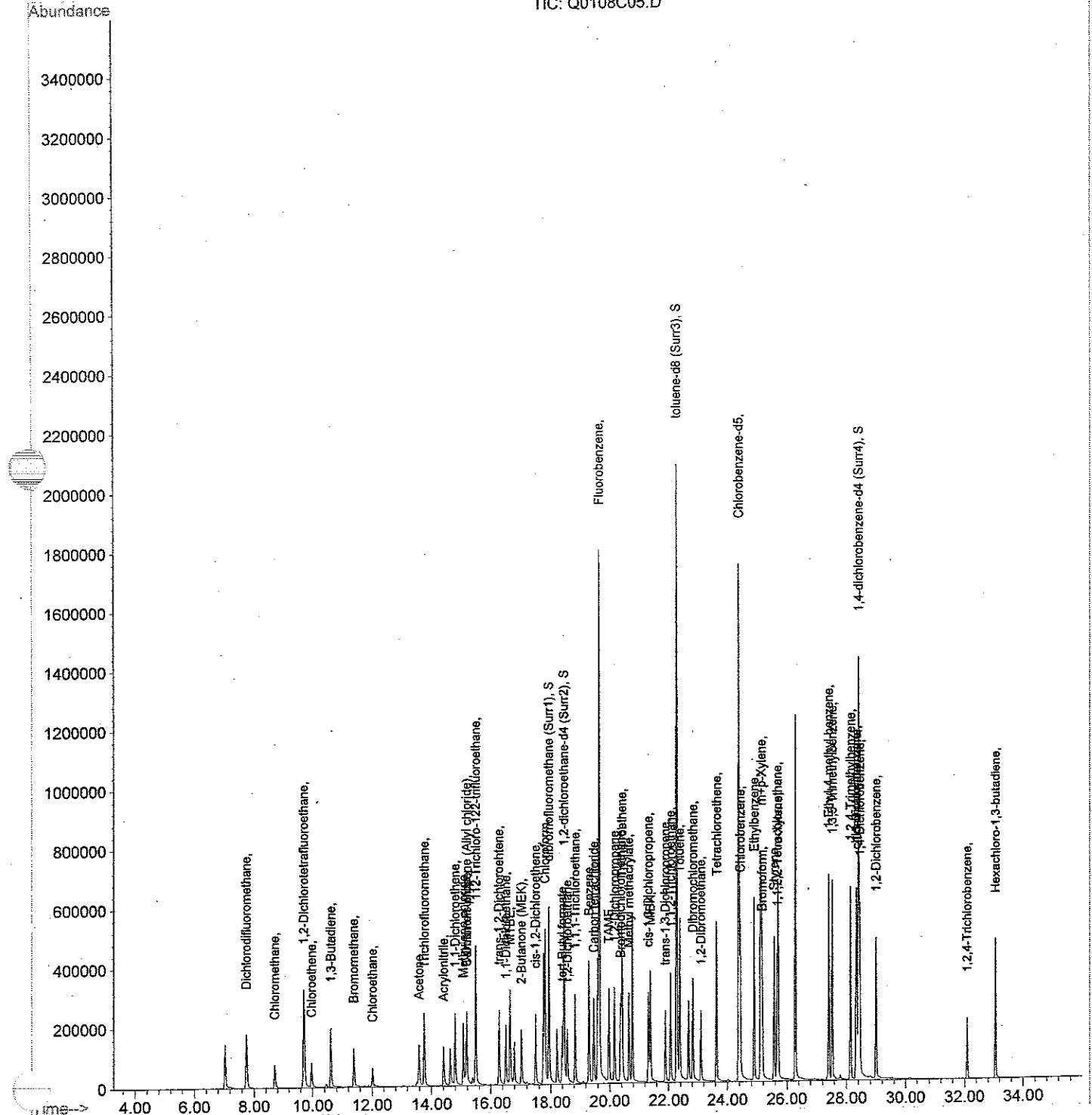
Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C05.D
Acq On : 7 Aug 01 11:20 pm
Sample : UAT ST 400 ML
Misc :
MS Integration Params: JKUM1.E
Quant Time: Aug 9 10:28 19101

Vial: 3
Operator:
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: QU0108.RES

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
Title : UAT Method (5 Points)
Last Update : Thu Aug 09 09:44:44 2001
Response via : Initial Calibration

TIC: Q0108C05.D



UAT ANALYSIS RESULT (MSD)

FIELD ID:	RPM-N-ERI-SUMD	ANAL. TIME:	08 / 8/01 06:44	0.4			
METHOD NAME	QU0108.M	SAMP. VOL(L):	0.14	-4			
DATA FILE:	q0108c14.d			15.2			
CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDL(ppb)
00071-43-2	Benzene	78.11	0.55	12.19	3.82	0.42	0.06
00108-88-3	Toluene	92.13	0.31	8.08	2.14	0.42	0.06
00100-41-4	Ethylbenzene	106.16	0.10	3.12	0.72	0.42	0.06
00108-38-3	m+p-Xylene	106.16	0.20	6.09	1.40	0.42	0.06
0095-47-6	o-Xylene	106.16	0.08	2.54	0.58	0.42	0.06
Surrogate Recovery							
CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL(ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	6.97	7.08	48.69	98.4%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	14.36	13.19	100.32	108.9%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.70	13.56	95.73	101.1%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	9.18	9.06	64.10	101.3%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Yongzhi Wang.

UAT ANALYSIS RESULT (MSD)

FIELD ID:	RPM-N-ERI-SUM	ANAL. TIME:	08/ 8/01 05:54	0.4
METHOD NAME	QU0108.M	SAMP. VOL(L):	0.14	-4
DATA FILE:	q0108c13.d			15.2

CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDL(ppb)
00071-43-2	Benzene	78.11	0.56	12.56	3.93	0.42	0.06
00108-88-3	Toluene	92.13	0.37	9.65	2.56	0.42	0.06
00100-41-4	Ethylbenzene	106.16	0.10	3.18	0.73	0.42	0.06
00108-38-3	m+p-Xylene	106.16	0.21	6.49	1.49	0.42	0.06
00095-47-6	o-Xylene	106.16	0.09	2.64	0.61	0.42	0.06

Surrogate Recovery

CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL(ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.09	7.08	49.54	100.1%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.99	13.19	97.74	106.1%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.49	13.56	94.23	99.5%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	9.09	9.06	63.49	100.3%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Yongzhi Wang.

UAT STANDARD RECOVERY(MSD)

FIELD ID: UAT ST 400 ML

METHOD NAME: QU0108.M

DATA FILE: Q0108C05.D

ANAL. TIME: 08/7/01 23:20

SAMP. VOL(L): 0.40

0.4

14.7

14.7

CAS NO.	COMPOUND NAME	MW	n1	n1(st)	ppb	rec.	MDL(ppb)
00075-71-8	Dichlorodifluoromethane	119.93	4.03	4.08	10.08	98.8%	0.06
00074-87-3	Chloromethane	49.99	4.08	4.08	10.19	99.9%	0.06
00076-14-2	1,2-Dichlorotetrafluoroethane	169.93	4.01	4.08	10.03	98.3%	0.06
00075-01-4	Chloroethene	61.99	4.02	4.08	10.06	98.6%	0.06
00074-83-9	Bromomethane	93.94	4.02	4.08	10.05	98.6%	0.06
00075-00-3	Chloroethane	64.01	4.01	4.08	10.02	98.3%	0.06
00067-64-1	Acetone	58.08	4.17	4.08	10.44	102.3%	0.06
00075-69-4	Trichlorofluoromethane	135.90	3.92	4.08	9.79	96.0%	0.06
00107-13-1	Acrylonitrile	53.03	6.23	6.19	15.57	100.6%	0.06
00075-35-4	1,1-Dichloroethene	95.95	4.16	4.16	10.40	100.0%	0.06
00075-09-2	Methylene chloride	84.93	4.01	4.16	10.03	96.5%	0.06
00075-15-0	Carbon disulfide	76.10	3.85	4.00	9.62	96.2%	0.06
00107-05-1	3-Chloro-1-propene (Allyl chloride)	76.01	4.43	4.60	11.07	96.2%	0.06
00076-13-1	112-Trichloro-122-trifluoroethane	185.90	4.10	4.16	10.24	98.5%	0.06
00156-60-5	trans-1,2-Dichloroethene	95.95	3.83	4.08	9.57	93.9%	0.06
00075-34-3	1,1-Dichloroethane	98.96	4.06	4.16	10.15	97.6%	0.06
01634-04-4	MTBE	88.15	4.13	4.12	10.33	100.2%	0.06
00078-93-3	2-Butanone (MEK)	72.14	4.02	4.08	10.06	98.6%	0.06
00156-59-2	cis-1,2-Dichloroethene	95.95	4.13	4.16	10.32	99.3%	0.06
00067-66-3	Chloroform	119.39	3.92	4.16	9.81	94.3%	0.06
00762-75-4	tert-Butyl formate	102.13	3.58	3.76	8.94	95.0%	0.06
00107-06-2	1,2-Dichloroethane	98.96	4.03	4.16	10.07	96.8%	0.06
00071-55-6	1,1,1-Trichloroethane	133.42	4.07	4.16	10.16	97.7%	0.06
00071-43-2	Benzene	78.11	3.93	4.20	9.83	93.6%	0.06
00056-23-5	Carbon tetrachloride	153.83	4.12	4.20	10.30	98.1%	0.06
00994-05-8	TAME	102.18	3.49	3.07	8.71	113.5%	0.06
00078-87-5	1,2-Dichloropropane	113.00	4.11	4.16	10.27	98.7%	0.06
00075-27-4	Bromodichloromethane	163.83	4.02	4.08	10.04	98.4%	0.06
00079-01-6	Trichloroethene	131.40	4.12	4.12	10.31	100.1%	0.06
00080-62-6	Methyl methacrylate	100.05	3.75	3.81	9.37	98.3%	0.06
10061-01-5	cis-1,3-Dichloropropene	109.97	4.15	4.20	10.39	98.9%	0.06
00108-10-1	MIBK	100.16	4.09	4.08	10.22	100.2%	0.06
10061-02-6	trans-1,3-Dichloropropene	109.97	4.18	4.20	10.44	99.5%	0.06
00079-00-5	1,1,2-Trichloroethane	131.93	4.16	4.20	10.41	99.1%	0.06
00108-88-3	Toluene	92.13	3.98	4.16	9.94	95.6%	0.06
00124-48-1	Dibromochloromethane	208.29	3.89	4.08	9.73	95.4%	0.06
00106-93-4	1,2-Dibromoethane	185.87	3.96	4.16	9.91	95.3%	0.06
00127-18-4	Tetrachloroethene	165.85	4.01	4.16	10.01	96.3%	0.06
00108-90-7	Chlorobenzene	112.60	3.96	4.16	9.90	95.2%	0.06
00100-41-4	Ethylbenzene	106.16	4.01	4.16	10.02	96.3%	0.06
00108-38-3	m+p-Xylene	106.16	8.01	8.32	20.03	96.3%	0.06
00075-25-2	Bromoform	252.75	4.11	4.16	10.28	98.8%	0.06
00100-42-5	Styrene	104.10	4.04	4.16	10.10	97.2%	0.06
00095-47-6	o-Xylene	106.16	3.99	4.16	9.97	95.9%	0.06
00079-34-5	1,1,2,2-Tetrachloroethane	165.89	3.99	4.16	9.98	95.9%	0.06
00622-96-8	1-Ethyl-4-methyl-benzene	120.09	3.93	4.08	9.83	96.3%	0.06
00108-67-8	1,3,5-Trimethylbenzene	120.09	4.00	4.16	10.01	96.2%	0.06
00095-63-6	1,2,4-Trimethylbenzene	120.09	4.01	4.16	10.02	96.3%	0.06
00100-44-7	chloromethylbenzene	126.02	4.03	4.00	10.08	100.8%	0.06
00541-73-1	1,3-Dichlorobenzene	145.97	4.02	4.16	10.06	96.7%	0.06
00106-46-7	1,4-Dichlorobenzene	145.97	4.07	4.16	10.17	97.8%	0.06
00095-50-1	1,2-Dichlorobenzene	145.97	4.07	4.16	10.17	97.8%	0.06
00120-82-1	1,2,4-Trichlorobenzene	179.93	4.36	4.16	10.91	104.9%	0.06
00087-68-3	Hexachloro-1,3-butadiene	257.81	4.31	4.16	10.77	103.6%	0.06
00106-99-0	1,3-Butadiene	54.09	4.06	4.16	10.16	97.7%	0.06

Surrogate Recovery

CAS NO.	COMPOUND NAME	MW	n1	n1(st)	ppb	rec.	MDL(ppb)
10865-53-7	dibromofluoromethane (Surr1)	90.00	6.97	7.08	17.42	98.4%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.02	13.19	32.54	98.7%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.03	13.56	32.57	96.1%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	9.13	9.06	22.82	100.8%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Jiangshi Kang

Quantitation report

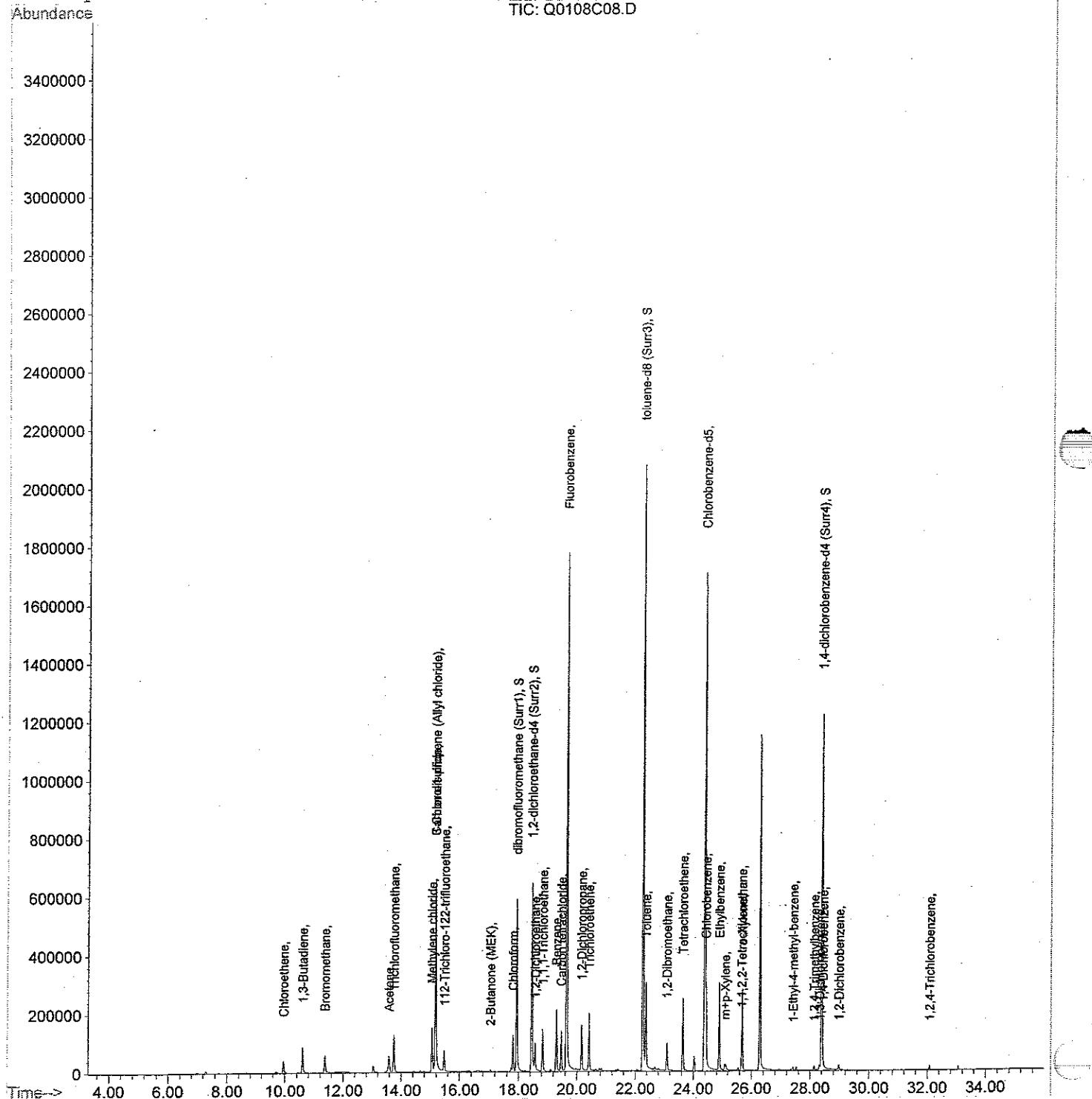
Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C08.D
 Acq On : 8 Aug 01 1:53 am
 Sample : NBS ST 400ML
 Misc :
 MS Integration Params: JKUM1.E
 Quant Time: Aug 9 9:56 19101

Vial: 4
 Operator:
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: QU0108.MS

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 09 09:44:44 2001
 Response via : Initial Calibration

TIC: Q0108C08.D



UAT SECOND SOURCE STANDARD RECOVERY (MSD)

FIELD ID:	NBS ST 400ML	ANAL. TIME:	08 / 8/01 01:53		0.4
METHOD NAME:	QU0108.M	SAMP. VOL(L):	0.40		14.7
DATA FILE:	q0108c08.d				14.7

CAS NO.	COMPOUND NAME	MW	nl	ppb(st)	ppb	rec.	MDL(ppb)
00075-71-8	Dichlorodifluoromethane						0.06
10074-87-3	Chloromethane						0.06
00075-14-2	1,2-Dichlorotetrafluoroethane						0.06
00075-01-4	Chloroethene	61.99	2.02	5.03	5.05	100.4%	0.06
00074-83-9	Bromomethane	93.94	1.81	5.05	4.53	89.7%	0.06
00075-00-3	Chloroethane						0.06
00067-64-1	Acetone						0.06
00075-69-4	Trichlorofluoromethane	135.90	2.15	5.06	5.37	106.1%	0.06
00107-13-1	Acrylonitrile						0.06
00075-35-4	1,1-Dichloroethene						0.06
00075-09-2	Methylene chloride	84.93	2.20	5.09	5.50	108.1%	0.06
00075-15-0	Carbon disulfide						0.06
00107-05-1	3-Chloro-1-propene (Allyl chloride)						0.06
00076-13-1	112-Trichloro-122-trifluoroethane						0.06
00156-60-5	trans-1,2-Dichloroethene						0.06
00075-34-3	1,1-Dichloroethane						0.06
01634-04-4	MTBE						0.06
00078-93-3	2-Butanone (MEK)						0.06
00156-59-2	cis-1,2-Dichloroethene						0.06
00067-66-3	Chloroform	119.39	1.96	5.09	4.90	96.2%	0.06
00762-75-4	tert-Butyl formate						0.06
00107-06-2	1,2-Dichloroethane	98.96	2.01	5.09	5.02	98.7%	0.06
00071-55-6	1,1,1-Trichloroethane	133.42	1.93	5.08	4.83	95.1%	0.06
00071-43-2	Benzene	78.11	2.03	5.08	5.06	99.7%	0.06
00056-23-5	Carbon tetrachloride	153.83	2.50	5.24	6.25	119.3%	0.06
00994-05-8	TAME	102.18					0.06
00078-87-5	1,2-Dichloropropane	113.00	1.98	5.09	4.96	97.4%	0.06
00075-27-4	Bromodichloromethane	163.83					
00079-01-6	Trichloroethene	131.40	1.84	5.09	4.60	90.4%	0.06
00080-62-6	Methyl methacrylate	100.05					0.06
10061-01-5	cis-1,3-Dichloropropene	109.97					0.06
00108-10-1	MIBK	100.16					0.06
10061-02-6	trans-1,3-Dichloropropene	109.97					0.06
00079-00-5	1,1,2-Trichloroethane	131.93					0.06
00108-88-3	Toluene	92.13	2.23	5.10	5.58	109.5%	0.06
00124-48-1	Dibromochloromethane	208.29					0.06
00106-93-4	1,2-Dibromoethane	185.87	1.69	5.10	4.22	82.8%	0.06
00127-18-4	Tetrachloroethene	165.85	1.91	5.10	4.76	93.4%	0.06
00108-90-7	Chlorobenzene	112.60	2.02	5.10	5.06	99.1%	0.06
00100-41-4	Ethylbenzene	106.16	2.00	5.10	5.00	98.1%	0.06
00108-38-3	m+p-Xylene	106.16					0.06
00075-25-2	Bromoform	252.75					0.06
00100-42-5	Styrene	104.10					0.06
00095-47-6	o-Xylene	106.16	1.95	5.10	4.88	95.8%	0.06
00079-34-5	1,1,2,2-Tetrachloroethane	165.89					0.06
00622-96-8	1-Ethyl-4-methyl-benzene	120.09					0.06
00108-67-8	1,3,5-Trimethylbenzene	120.09					0.06
00095-63-6	1,2,4-Trimethylbenzene	120.09					0.06
00100-44-7	chloromethylbenzene	126.02					0.06
00541-73-1	1,3-Dichlorobenzene	145.97					0.06
00106-46-7	1,4-Dichlorobenzene	145.97					0.06
00095-50-1	1,2-Dichlorobenzene	145.97					0.06
00120-82-1	1,2,4-Trichlorobenzene	179.93					0.06
00087-68-3	Hexachloro-1,3-butadiene	257.81					0.06
00106-99-0	1,3-Butadiene	54.09					0.06

Surrogate Recovery

CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL(ppb)
0865-53-7	dibromofluoromethane (Surr1)	90.00	6.98	7.08	17.45	98.6%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.78	13.19	34.44	104.4%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.67	13.56	34.17	100.8%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	7.75	9.06	19.38	85.6%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Jiangshi Kang

Quantitation Report

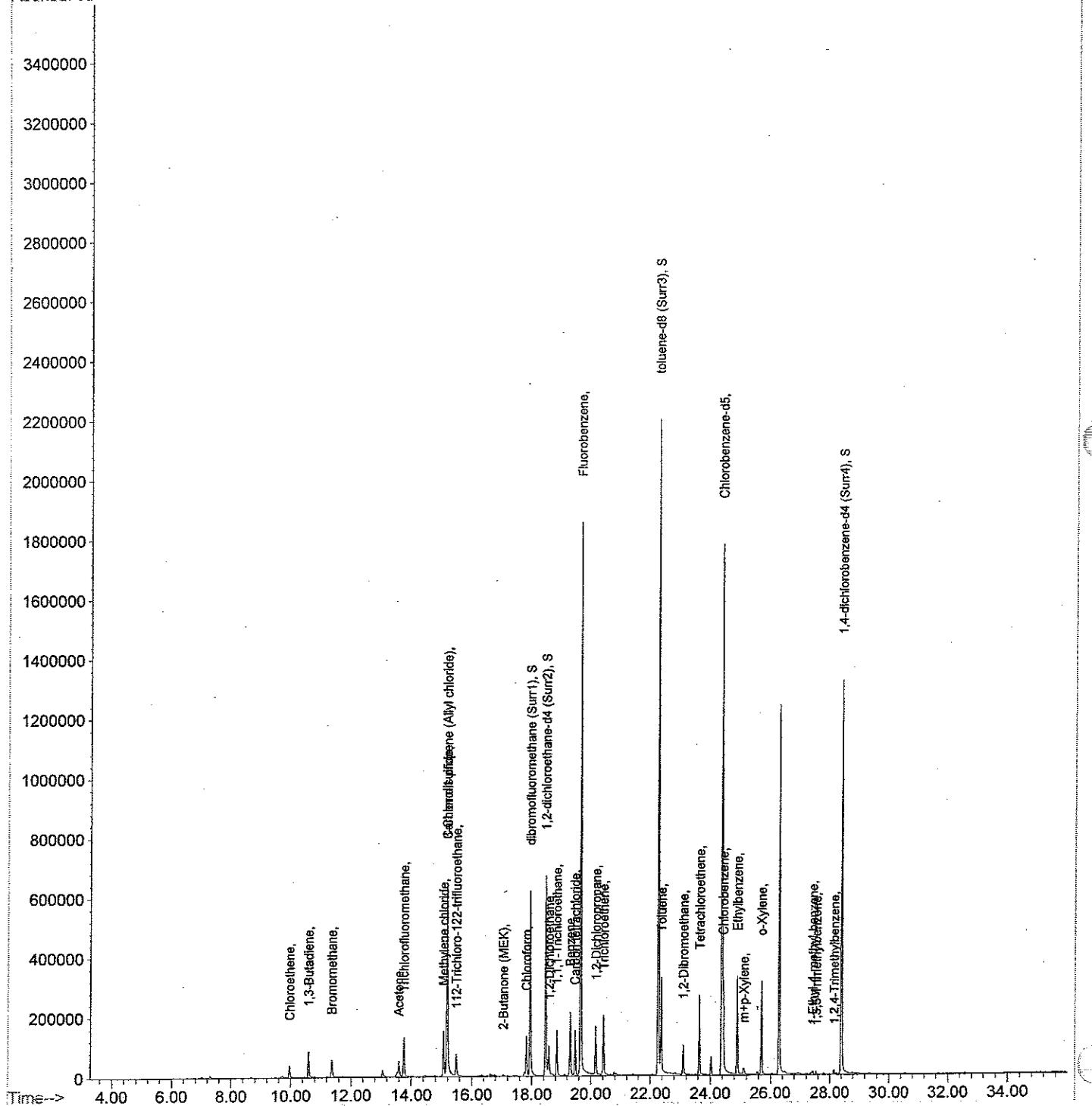
Data File : C:\HPCHEM\1\DATA\Q0108B\Q0108C27.D
 Acq On : 8 Aug 01 5:29 pm
 Sample : NBS ST 400ML
 Misc : 01101-12
 MS Integration Params: JKUM1.E
 Quant Time: Aug 9 9:59 19101

Vial: 4
 Operator:
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: QU0108.MS

Method : C:\HPCHEM\1\METHODS\QU0108.M (Chemstation Integrator)
 Title : UAT Method (5 Points)
 Last Update : Thu Aug 09 09:44:44 2001
 Response via : Initial Calibration

Abundance TIC: Q0108C27.D



UAT SECOND SOURCE STANDARD RECOVERY (MSD)

FIELD ID: NBS ST 400ML

METHOD NAME: QU0108.M

DATA FILE: g0108c27.d

ANAL. TIME: 08/ 8/01 17:29

SAMP. VOL(L): 0.40

0.4

14.7

14.7

CAS NO.	COMPOUND NAME	MW	nl	ppb(st)	ppb	rec.	MDL(ppb)
00075-71-8	Dichlorodifluoromethane						0.06
10074-87-3	Chloromethane						0.06
00076-14-2	1,2-Dichlorotetrafluoroethane						0.06
00075-01-4	Chloroethene	61.99	1.98	5.03	4.96	98.6%	0.06
00074-83-9	Bromomethane	93.94	1.76	5.05	4.41	87.3%	0.06
00075-00-3	Chloroethane						0.06
00067-64-1	Acetone						0.06
00075-69-4	Trichlorofluoromethane	135.90	2.13	5.06	5.33	105.3%	0.06
00107-13-1	Acrylonitrile						0.06
00075-35-4	1,1-Dichloroethene						0.06
00075-09-2	Methylene chloride	84.93	2.20	5.09	5.50	108.1%	0.06
00075-15-0	Carbon disulfide						0.06
00107-05-1	3-Chloro-1-propene (Allyl chloride)						0.06
00076-13-1	112-Trichloro-122-trifluoroethane						0.06
00156-60-5	trans-1,2-Dichloroethene						0.06
00075-34-3	1,1-Dichloroethane						0.06
01634-04-4	MTBE						0.06
00078-93-3	2-Butanone (MEK)						0.06
00156-59-2	cis-1,2-Dichloroethene						0.06
00067-66-3	Chloroform	119.39	2.02	5.09	5.06	99.4%	0.06
00762-75-4	tert-Butyl formate						0.06
00107-06-2	1,2-Dichloroethane	98.96	2.03	5.09	5.08	99.8%	0.06
00071-55-6	1,1,1-Trichloroethane	133.42	1.96	5.08	4.90	96.5%	0.06
00071-43-2	Benzene	78.11	2.03	5.08	5.06	99.7%	0.06
00056-23-5	Carbon tetrachloride	153.83	2.50	5.24	6.25	119.3%	0.06
00994-05-8	TAME	102.18					0.06
00078-87-5	1,2-Dichloropropane	113.00	1.95	5.09	4.88	95.8%	0.06
00075-27-4	Bromodichloromethane	163.83					0.06
00079-01-6	Trichloroethene	131.40	1.84	5.09	4.60	90.4%	0.06
00080-62-6	Methyl methacrylate	100.05					0.06
10061-01-5	cis-1,3-Dichloropropene	109.97					0.06
00108-10-1	MIBK	100.16					0.06
10061-02-6	trans-1,3-Dichloropropene	109.97					0.06
00079-00-5	1,1,2-Trichloroethane	131.93					0.06
00108-88-3	Toluene	92.13	2.24	5.10	5.59	109.7%	0.06
00124-48-1	Dibromochloromethane	208.29					0.06
00106-93-4	1,2-Dibromoethane	185.87	1.60	5.10	3.99	78.3%	0.06
00127-18-4	Tetrachloroethene	165.85	1.91	5.10	4.78	93.8%	0.06
00108-90-7	Chlorobenzene	112.60	2.00	5.10	5.00	98.1%	0.06
00100-41-4	Ethylbenzene	106.16	2.01	5.10	5.01	98.3%	0.06
00108-38-3	m+p-Xylene	106.16					0.06
00075-25-2	Bromoform	252.75					0.06
00100-42-5	Styrene	104.10					0.06
00095-47-6	o-Xylene	106.16	2.02	5.10	5.05	99.1%	0.06
00079-34-5	1,1,2,2-Tetrachloroethane	165.89					0.06
00622-96-8	1-Ethyl-4-methyl-benzene	120.09					0.06
00108-67-8	1,3,5-Trimethylbenzene	120.09					0.06
00095-63-6	1,2,4-Trimethylbenzene	120.09					0.06
00100-44-7	chloromethylbenzene	126.02					0.06
00541-73-1	1,3-Dichlorobenzene	145.97					0.06
00106-46-7	1,4-Dichlorobenzene	145.97					0.06
00095-50-1	1,2-Dichlorobenzene	145.97					0.06
00120-82-1	1,2,4-Trichlorobenzene	179.93					0.06
00087-68-3	Hexachloro-1,3-butadiene	257.81					0.06
00106-99-0	1,3-Butadiene	54.09					0.06

Surrogate Recovery

CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL(ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.09	7.08	17.73	100.2%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.53	13.19	33.83	102.6%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.55	13.56	33.88	99.9%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	7.84	9.06	19.61	86.6%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director, Analyzed by Jiangshi Kang

UAT ANALYSIS RESULT (MSD)

FIELD ID: RPM-E-ERI-SUM - 214	ANAL. TIME: 08/ 8/01 05:04	0.4
METHOD NAME QU0108.M	SAMP. VOL(L): 0.12	-4.8
DATA FILE: q0108c12.d		17.8

CAS NO.	COMPOUND NAME	MW	nl	ng/L	ppb	DL(ppb)	MDL(ppb)
00071-43-2	Benzene	78.11	0.72	18.84	5.90	0.49	0.06
00108-88-3	Toluene	92.13	13.37	413.56	109.75	0.49	0.06
00100-41-4	Ethylbenzene	106.16	0.27	9.58	2.21	0.49	0.06
0108-38-3	m+p-Xylene	106.16	1.05	37.39	8.61	0.49	0.06
00095-47-6	o-Xylene	106.16	0.26	9.24	2.13	0.49	0.06

Surrogate Recovery

CAS NO.	COMPOUND NAME	MW	nl	nl(st)	ppb	rec.	MDL(ppb)
00865-53-7	dibromofluoromethane (Surr1)	90.00	7.01	7.08	57.50	99.0%	0.06
17060-07-0	1,2-dichloroethane-d4 (Surr2)	102.99	13.84	13.19	113.61	104.9%	0.06
02037-26-5	toluene-d8 (Surr3)	100.21	13.36	13.56	109.64	98.5%	0.06
03855-82-1	1,4-dichlorobenzene-d4 (Surr4)	151.04	9.31	9.06	76.39	102.8%	0.06

Data reviewed by Dr. Shili Liu, Laboratory Director; Analyzed by Yongzhi Wang.



ERI Chain of Custody

Environmental Research Institute
270 Middle Turnpike U-5210
Storrs, Ct 06269-5210
Customer support@eri.uconn.edu

(860)486-4015

2401 W. 22nd ST.
OAK BROOK, IL 60523
Kimberly Nicholas
BURNUS & McDONNELL

Sample Transfer (Signature and Print name)

Relinquished By: *Loring Trapp*

Date, Time 8-1-01

Project Contact Michael Trahiotis
Phone 486-2299

Billing MARGARET KENY
Contact Thakare
Phone 630-990-0300

Received By:

Date, Time

E-Mail Mirahiotis@eri.uconn.edu
Reporting Request

E-Mail Purchase Order/
Reference Number 2-7194-407
ROGERS PARK DRILLING

Relinquished By: *Courney MacCaffrey*

Date, Time 8-1-01 10:30am

Laboratory Sign off (signature, print name, date)

Received By: *D. L. Zit*

Date, Time 8-3-01

Extraction Date (TO-15 exempt):

Relinquished By: *D. L. Zit*

Date, Time 8-3-01 10:30am

Analysis performed by:

Received By: *Y. Wang*

Date, Time 8-3-01 12:00pm

Report prepared by:

Date of Analysis and report generation are provided in the electronic data report

Normal Turn Around TIME

Tests

PCBs

PCDD

PCDF

PCDD/F

PCDF/PCDD

PCDD/PCDF

PCDD/PCDF/PCPF

PCPF

PCP

PCB/PCDF

PCB/PCDD

PCB/PCDF/PCDD

PCB/PCDF/PCDD/PCPF

PCB/PCDF/PCDD/PCPF/PCPF

PCB/PCDF/PCDD/PCPF/PCPF/PCPF

PCB/PCDF/PCDD/PCPF/PCPF/PCPF/PCPF

PCB/PCDF/PCDD/PCPF/PCPF/PCPF/PCPF/PCPF

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PCB/PCDF/PCDD/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF

PCB/PCDF/PCDD/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF/PCPF

Received By:

Date, Time

L- Organics Lab

P- Nutrients Prep Lab

Sample Storage Location:

F- Hallway Fridge

Field Number	Canister #	Sample Collection	Start Date	End Date	ERT ID	PAH	PAH/Metals	Comment
1 RPM-E-ERI-Sum	2010	7-31-01	7-31-01	01201-01	ERTID Canister #	Module #	Filter #	Analyze for BTEX only
2 RPM-N-ERI-Sum	2015	8-1-01	8-1-01	01204-02				"

VOC FIELD SHEET AND CHAIN OF CUSTODY

SECTION ONE

To be completed by analytical Lab before shipping to field

Can ID#: 2010 Can Make: BRC Anderson SIS Canister Cleaned: Date: 7/10/01
Signature Y. Wang Print: Y. Wang If used as Batch Blank (circle one) ACCEPTABLE VOID
Canister Vacuum (after cleaning): -29 in.Hg
Canister released to Signature M. Trabato Print: Michael Trabato Date: 7/23/01
Canister drop off at vendor or Signature: _____ Print: _____ Date: _____

SECTION TWO

To be completed by Field Sampler

Canister received: Signature: Cathy L. Steltz Print: Cathy L. Steltz Date: 7-31-01
Project #: 2794-4.07 Town Code: BRC45 MRC46 WDC47 VTC21 GNC49 HFC48 WYC51 EHCT HNC25 WFC3 NLC2

Sample #: RPM-E-EH1-SUM Sample Code: A CP CS FB TB CERT Other Town/Code: _____

ampler ID#: _____ Collocated Partner: _____ Other Sample Code: _____

Start Date: 7-31-01 Start Time: 6:40am (EST) LOCAL

End Date: 7-31-01 End Time: 3:40pm (EST) LOCAL

Starting Vacuum(in.Hg) 29 Final Can Pressure (psig) 9

Start Target Flow Rate (cc/min): _____ Set Up Date: _____

Timer Start: _____ hrs Timer End: _____ hrs Pick-Up Date: _____

Start Flow Meter: DryCal Sierra S/N: _____ End Flow Meter: DryCal Sierra S/N: _____

Canister delivered to courier: Date: _____ Signature: _____ Circle One: ACCEPTABLE VOID Print: _____

Canister picked up by courier: Date: _____ Signature: _____ Print: _____

NOTES:

ACCEPTANCE CRITERIA: SET START TARGET FLOW RATE TO 12.50 CC/MIN. +/- 10% (11.30-13.80 CC/MIN.) AND RECORD TO 1/0 (2) DECIMAL PLACES, TOTAL ELAPSED TIME 1440 MIN +/-144 (1296-1584), START VACUUM -29 TO -27 INCHES OF HG, END PRESSURE 10 -30 PSIG (IN FIELD CONDITIONS)

SECTION THREE

To be completed by Analytical Lab

Canister received: Signature: Debra Lent Print: Debra Lent Date: 8/31/01

Sample ID#: RPM-E-EH1-SUM Lab ID#: 01204-01 Pressure: 9 in Hg psig (circle one) Acceptable Void

Entered: 04/05/01 1:03 PM

in 5

Toxics\Forms\form5.doc

VOC FIELD SHEET AND CHAIN OF CUSTODY

To be completed by analytical Lab before shipping to field

SECTION ONE

Can ID#: 2015 Can Make: BRC Anderson SIS Canister Cleaned Date: 7/17/01

Signature Y. Wang Print: Y. Wang

Canister Vacuum (after cleaning): -29 "Hg If used as Back-up, checkmark ACCEPTABLE

Canister released to Signature: M. Tahidi Print: Michael Tahidi

Canister drop off at Windsor Signature:

Print: _____ Date: _____

SECTION TWO

To be completed by Field Sampler

Canister received: Signature: Lindsey L. Hally Print: Courtney M. Anderson Date: 8-1-01

Project #: 27194-407 Town/Code: BRC45 MRC46 WDC47 VTC21 GNC49 TTC48 WYC51 EHC1 HNC25 WIC3 SIC2

Sample #: RPM-N-BRI-SUM Sample Code: A CP CS FB TB CERT Other Town/Code:

Sampler ID#:

Collocated Partner:

Other Sample Code:

Start Date: 8-1-01 Start Time: 6:35am (EST LOCAL)

Date: 8-1-01 End Time: 4:05pm (EST LOCAL)

Starting Vacuum(in.Hg) 30 Final Can Pressure (psig) 8.5

Start Target Flow Rate (cc/min):

Set Up Date:

Timer Start: _____ hrs Timer End: _____ hrs

Pick-Up Date:

Start Flow Meter: DryCat Sierra S/N: _____ End Flow Meter: DryCat Sierra S/N: _____

Canister delivered to courier: Date:

Circle One: ACCEPTABLE VOID

Canister picked up by courier: Date:

Signature: _____ Print: _____

Print: _____

NOTES:

ACCEPTANCE CRITERIA: SET START TARGET FLOW RATE TO 12.50 CC/MIN. +/- 10% (11.30-13.80 CC/MIN.) AND RECORD TO TWO (2) DECIMAL PLACES. TOTAL ELAPSED TIME 1440 MIN +/- 144 (1296-1584), START VACUUM -29 TO -27 INCHES OF HG, END PRESSURE 10-30 PSIG (IN FIELD CONDITIONS)

SECTION THREE

To be completed by Analytical Lab

Canister received: Signature: Debra Lart

Print: Debra Lart Date: 8/3/01

Sample ID# RPM-N-ERI-SUM Lab ID# 01204402

Pressure: -10 in Hg psig

(circle one) Acceptable Void